

FILE 'REGISTRY' ENTERED AT 13:49:49 ON 24 SEP 2008

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 38 S L1 SSS FULL

FILE 'HCAPLUS' ENTERED AT 13:50:43 ON 24 SEP 2008

L4 18 S L3

=> file registry
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 13:49:49 ON 24 SEP 2008
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STRUCTURE FILE UPDATES: 23 SEP 2008 HIGHEST RN 1052062-90-4
DICTIONARY FILE UPDATES: 23 SEP 2008 HIGHEST RN 1052062-90-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

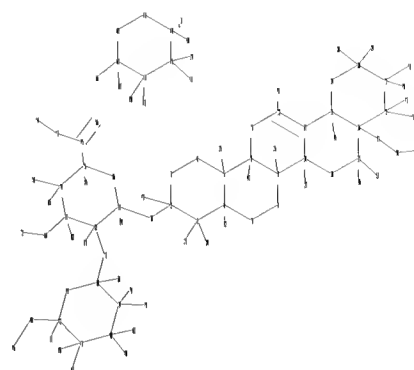
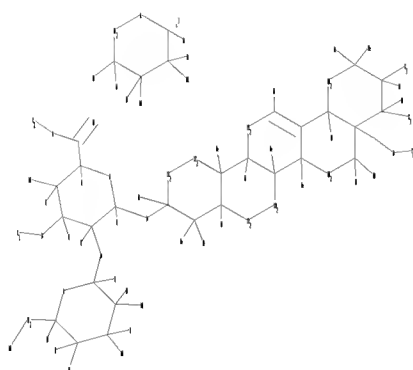
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\STNEXP\Queries\10580805generic.str



chain nodes :

23 24 25 26 27 28 29 30 37 44 45 46 47 48 49 50 51 53 54 56 57
59 66 67 68 69 72 73 74 76 77 78 79 80 81 82 83 84 85 86 87 88
89 90 91
92 93 94 95 96 97 98

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 31
32 33 34 35 36 38 39 40 41 42 43 60 61 62 63 64 65

chain bonds :

1-23 1-24 2-30 2-91 5-25 6-92 7-93 8-26 12-94 14-27 15-95 16-73 17-51
17-96 20-28 20-29 21-53 21-98 22-54 22-97 30-31 31-84 32-37 32-83 33-69
33-82 34-50
34-85 35-45 35-86 37-38 38-78 39-49 39-79 40-48 40-81 41-47 41-80 42-44
42-77 44-46
45-56 45-57 57-59 60-67 60-88 61-66 61-87 64-90 65-68 65-89 69-72 73-74
74-76

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 7-11 8-9 8-14 9-10 11-12 12-13
13-14 13-15 14-18 15-16 15-19 16-17 16-22 17-18 19-20 20-21 21-22 31-32
31-36 32-33

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33-34 34-35 35-36 38-39 38-43 39-40 40-41 41-42 42-43 60-61 60-65 61-62
62-63 63-64
64-65
exact/norm bonds :
1-2 1-6 2-3 2-30 3-4 4-5 5-6 5-7 6-10 7-8 7-11 8-9 8-14 9-10 11-12
12-13 13-14 13-15 14-18 15-16 15-19 16-17 16-22 17-18 17-51 19-20 20-21
21-22 21-53
22-54 30-31 31-32 31-36 32-33 32-37 33-34 33-69 34-35 34-50 35-36 37-38
38-39 38-43 39-40
39-49 40-41 40-48 41-42 41-47 42-43 45-56 45-57 57-59 60-61 60-65 60-67
61-62 61-66
62-63 63-64 64-65 65-68 69-72 73-74 74-76
exact bonds :
1-23 1-24 2-91 5-25 6-92 7-93 8-26 12-94 14-27 15-95 16-73 17-96 20-28
20-29 21-98 22-97 31-84 32-83 33-82 34-85 35-45 35-86 38-78 39-79 40-81
41-80 42-44
42-77 44-46 60-88 61-87 64-90 65-89

```

G1:H,O

G2:H,CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,Ph

G3:H,[*1]

G4:C,H

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom
22:Atom 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS
30:CLASS 31:Atom 32:Atom
33:Atom 34:Atom 35:Atom 36:Atom 37:CLASS 38:Atom 39:Atom 40:Atom 41:Atom
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90:CLASS 91:CLASS 92:CLASS 93:CLASS 94:CLASS 95:CLASS 96:CLASS 97:CLASS
98:CLASS

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L1 STRUCTURE UPLOADED

=> s 11

SAMPLE SEARCH INITIATED 13:50:28 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 368 TO ITERATE

100.0% PROCESSED 368 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 6210 TO 8510

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> d l1

L1 HAS NO ANSWERS

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss full

FULL SEARCH INITIATED 13:50:37 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 7404 TO ITERATE

100.0% PROCESSED 7404 ITERATIONS

38 ANSWERS

SEARCH TIME: 00.00.01

L3 38 SEA SSS FUL L1

=> file hcaplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

178.82

179.03

FILE 'HCAPLUS' ENTERED AT 13:50:43 ON 24 SEP 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 24 Sep 2008 VOL 149 ISS 13

FILE LAST UPDATED: 23 Sep 2008 (20080923/ED)

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 18 L3

=> d l4 1-18 ti abs bib hitstr

L4 ANSWER 1 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Phenolic compounds and rare polyhydroxylated triterpenoid saponins from

Eryngium yuccifolium

AB Phytochem. investigation on the whole plant of Eryngium yuccifolium resulted in the isolation and identification of three phenolic compds. (1-3) and 12 polyhydroxylated triterpenoid saponins, named eryngiosides A-L (4-15), together with four known compds. kaempferol-3-O-(2,6-di-O-trans-p-coumaroyl)- β -D-glucopyranoside (16), caffeic acid (17), 21 β -angeloyloxy-3 β -[β -D-glucopyranosyl-(1 \rightarrow 2)]-[β -D-xylopyranosyl-(1 \rightarrow 3)]- β -D-glucuronopyranosyloxyolean-12-ene-15 α ,16 α ,22 α ,28-tetrol (18), and saniculasaponin III (19). This study reports the isolation of these compds. and their structural elucidation by extensive spectroscopic analyses and chemical degradation

AN 2008:785878 HCAPLUS <<LOGINID::20080924>>

DN 149:171225

TI Phenolic compounds and rare polyhydroxylated triterpenoid saponins from Eryngium yuccifolium

AU Zhang, Zhizhen; Li, Shiyong; Ownby, Stacy; Wang, Ping; Yuan, Wei; Zhang, Wanli; Beasley, R. Scott

CS National Center for Pharmaceutical Crops, Arthur Temple College of Forestry and Agriculture, Stephen F. Austin State University, Nacogdoches, TX, 75962-6109, USA

SO Phytochemistry (Elsevier) (2008), 69(10), 2070-2080
CODEN: PYTCAS; ISSN: 0031-9422

PB Elsevier Ltd.

DT Journal

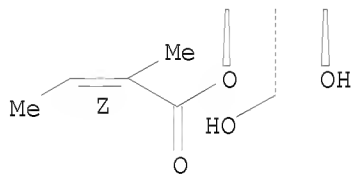
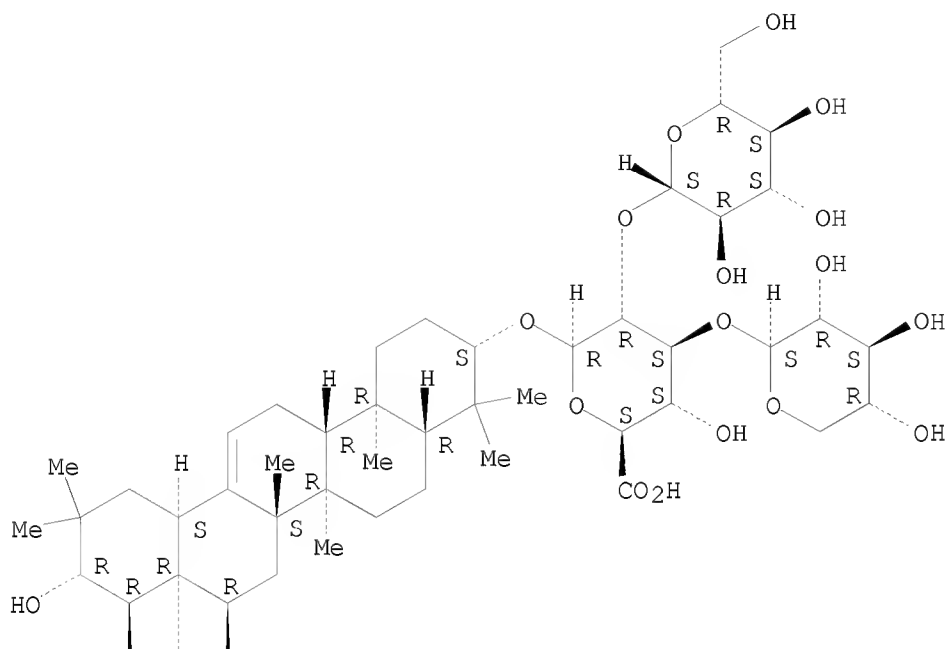
LA English

IT 1039557-69-1P, Eryngioside F 1039557-74-8P, Eryngioside K 1039557-75-9P, Eryngioside L
RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(phenolic compds. and rare polyhydroxylated triterpenoid saponins from Eryngium yuccifolium)

RN 1039557-69-1 HCAPLUS

CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-16,21,28-trihydroxy-22-[[(2Z)-2-methyl-1-oxo-2-buten-1-yl]oxy]olean-12-en-3-yl O- β -D-glucopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-(1 \rightarrow 3)]- (CA INDEX NAME)

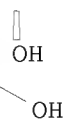
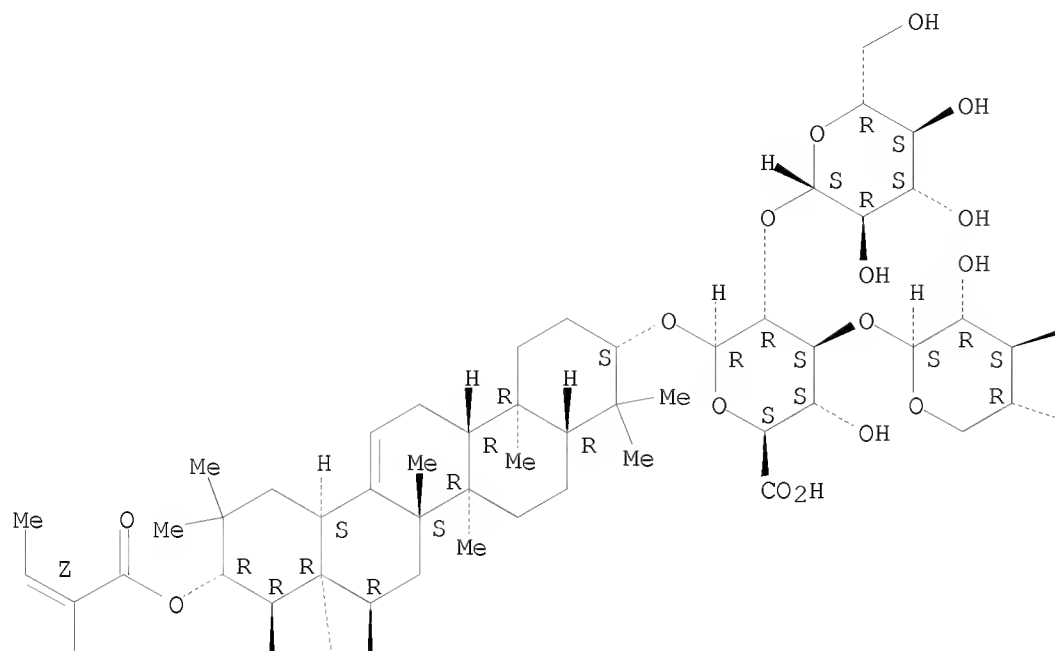
Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.



RN 1039557-74-8 HCAPLUS

CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
22-(acetyloxy)-16,28-dihydroxy-21-[[(2Z)-2-methyl-1-oxo-2-
butenyl]oxy]olean-12-en-3-yl O- β -D-glucopyranosyl-(1 \rightarrow 2)-O-
[β -D-xylopyranosyl-(1 \rightarrow 3)]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

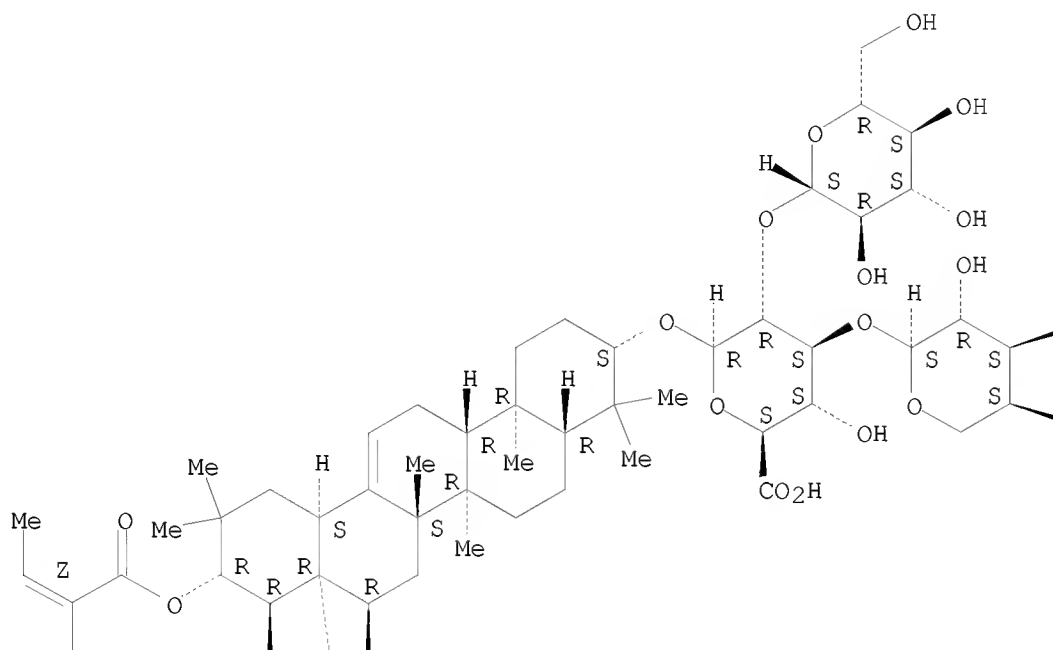


RN 1039557-75-9 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β , 16 α , 21 β , 22 α)-

22-(acetyloxy)-16,28-dihydroxy-21-[[(2Z)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-yl 0- α -L-arabinopyranosyl-(1 \rightarrow 3)-O-[β -D-glucopyranosyl-(1 \rightarrow 2)]- (CA INDEX NAME)

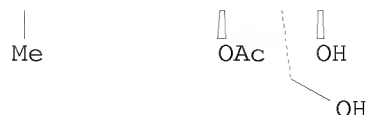
Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

PAGE 1-A



PAGE 1-B





RE.CNT 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Composition comprising triterpene saponins and compounds with angeloyl functional group, methods for preparing same and uses thereof
 AB This invention provides a compound comprising a triterpenoidal saponin, triterpenoid, triterpenoidal compound or saponenin, comprising at least two side groups selected from the group consisting of: angeloyl groups, tigloyl groups and seneciroyl groups, wherein the side groups are attached to carbon 21, 22 or/and 28 of triterpenoidal saponin, triterpenoid, triterpenoidal compound or saponenin backbone. This invention provides a composition for inhibiting tumor cell growth, comprising an appropriate amount of

a triterpenoidal saponin, triterpenoid, triterpenoidal compound or saponenin, wherein the triterpenoidal saponin, triterpenoid, triterpenoidal compound or saponenin comprises any two side groups selected from the group consisting of: angeloyl groups, tigloyl groups and seneciroyl groups, wherein the side groups are attached to carbon 21, 22 or/and 28 of triterpenoidal saponin, triterpenoid, triterpenoidal compound or saponenin backbone.

AN 2006:493929 HCAPLUS <<LOGINID::20080924>>

DN 145:1004

TI Composition comprising triterpene saponins and compounds with angeloyl functional group, methods for preparing same and uses thereof

IN Chan, Pui-Kwong; Mak, May Sung; Wang, Yun

PA USA

SO U.S. Pat. Appl. Publ., 46 pp., Cont.-in-part of U.S. Ser. No. 131,551

CODEN: USXXCO

DT Patent

LA English

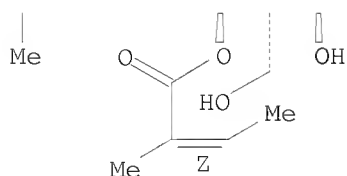
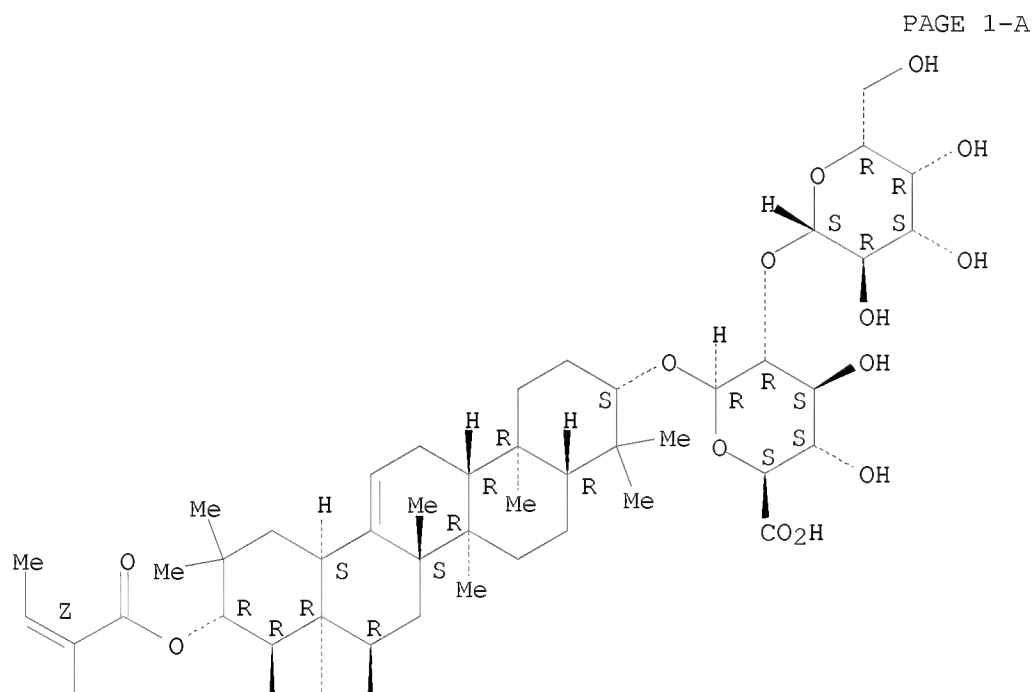
FAN.CNT 12

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PI	US 20060111310	A1	20060525	US 2005-267523	20051104
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	WO 2005037200	A3	20050616		
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US	20050220910	A1	20051006 US 2005-906303 20050214
US	20050276872	A1	20051215 US 2005-117760 20050427
US	20050277601	A1	20051215 US 2005-131551 20050517
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WO	2006116656	A2	20061102 WO 2006-US16158 20060427
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	US 2003-532101P	P	20031223
	US 2004-607858P	P	20040907
	US 2004-613811P	P	20040927
	US 2004-617379P	P	20041008
	WO 2004-US33359	A2	20041008
	WO 2004-US43465	A2	20041223
	US 2005-906303	A2	20050214
	US 2005-117760	A2	20050427
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	WO 2005-US31900	A2	20050907
	US 2001-944805	A2	20010831
	WO 2002-IB4750	W	20020828
	US 2003-471384	A2	20030904
	US 2005-117745	A2	20050427

US 2005-267523 A2 20051104
 US 2005-289142 A 20051128
 WO 2006-US16158 W 20060427
 OS MARPAT 145:1004
 IT 852361-60-5
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (composition comprising triterpene saponins and compds. with angeloyl
 functional group for treatment of cancer and other diseases)
 RN 852361-60-5 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
 16,28-dihydroxy-21,22-bis[[(2Z)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-
 yl 2-O- β -D-galactopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



L4 ANSWER 3 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Novel analgesic compounds, extracts containing same and methods of
 preparation

AB Various compds. are obtained from plants of the Barringtonia species which are derived from barringtoside A and barringtoside C as precursor compds. which especially have an arabinopyranosyl substituent at the 21 position which may optionally be further substituted with benzoyl, dibenzoyl, Me butanoyl, Me butyryl or tigloyl at the 3 or 4 positions. Alternatively at the 21 position there is provided tigloyl, benzoyl or dibenzoyl substituents. Various barringtoside derivs. were obtained from aqueous exts. of B. acutangula dried bark and their analgesic efficacy was shown in rats hind paw.

AN 2005:493616 HCAPLUS <<LOGINID::20080924>>

DN 143:48023

TI Novel analgesic compounds, extracts containing same and methods of preparation

IN Quinn, Ronald; Mills, Clive

PA Griffith University, Australia; Jarlmadangah Buru Aboriginal Corporation

SO PCT Int. Appl., 103 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005051969	A1	20050609	WO 2004-AU1660	20041126
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PRAI	AU 2003-906558	A	20031127		
	WO 2004-AU1660	W	20041126		

OS MARPAT 143:48023

IT 849637-45-2 849637-46-3 849637-47-4
849818-09-3 849818-13-9 849818-20-8
849818-23-1 849818-26-4 853306-55-5
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853308-40-4 853308-41-5 853308-42-6
853308-43-7 853308-44-8

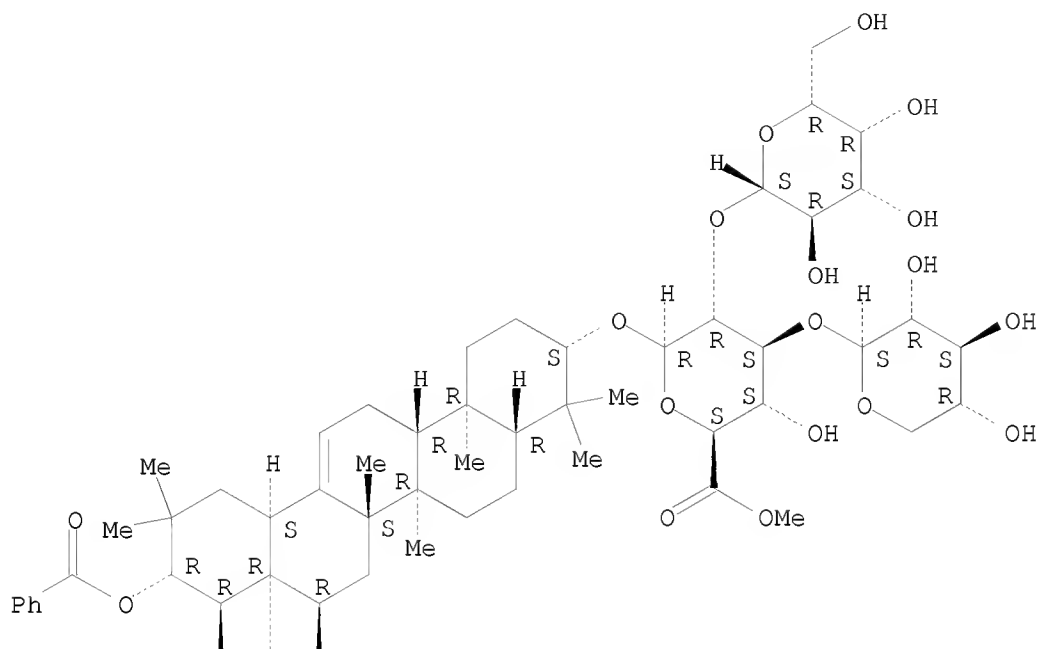
RL: NPO (Natural product occurrence); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses) (novel analgesic compds., exts. containing same and methods of preparation)

RN 849637-45-2 HCAPLUS

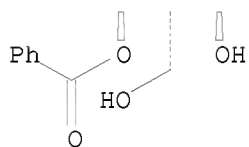
CN β -D-Glucopyranosiduronic acid, (3 β , 16 α , 21 β , 22 α)-21, 22-bis(benzoyloxy)-16, 28-dihydroxyolean-12-en-3-yl O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-(1 \rightarrow 3)]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

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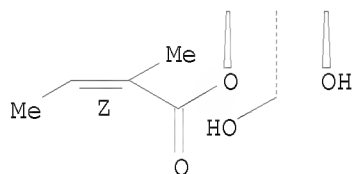
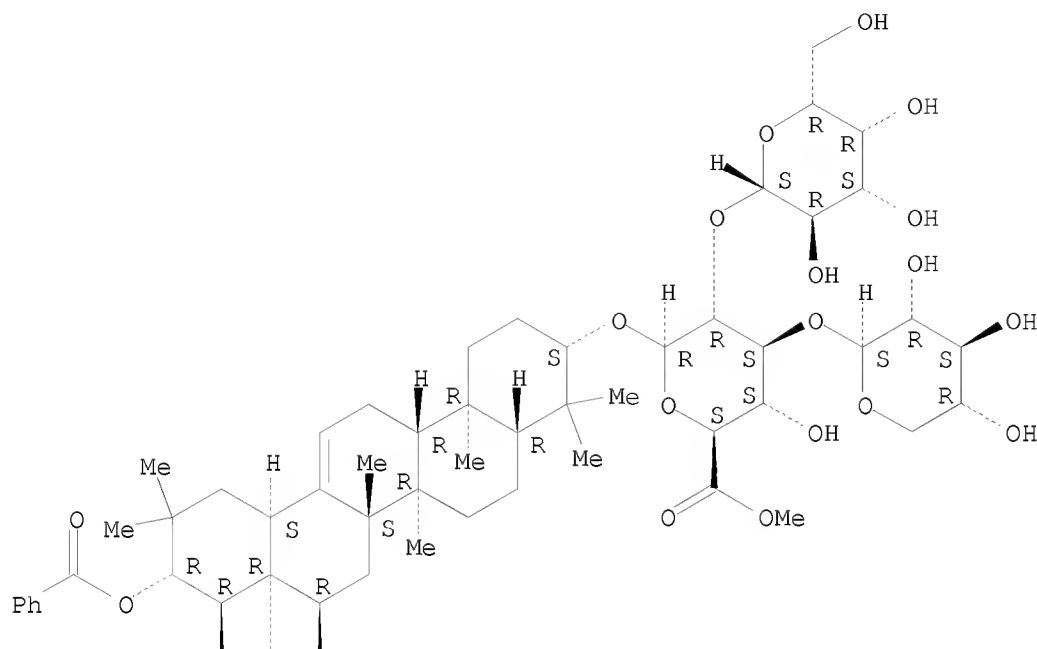


RN 849637-46-3 HCAPLUS

CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
21-(benzoyloxy)-16,28-dihydroxy-22-[[(2Z)-2-methyl-1-oxo-2-
butenyl]oxy]olean-12-en-3-yl O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-
[β -D-xylopyranosyl-(1 \rightarrow 3)]-, methyl ester (9CI) (CA INDEX
NAME)

Absolute stereochemistry. Rotation (-).

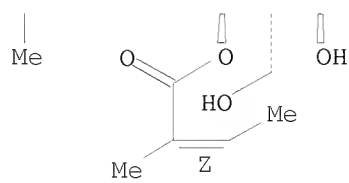
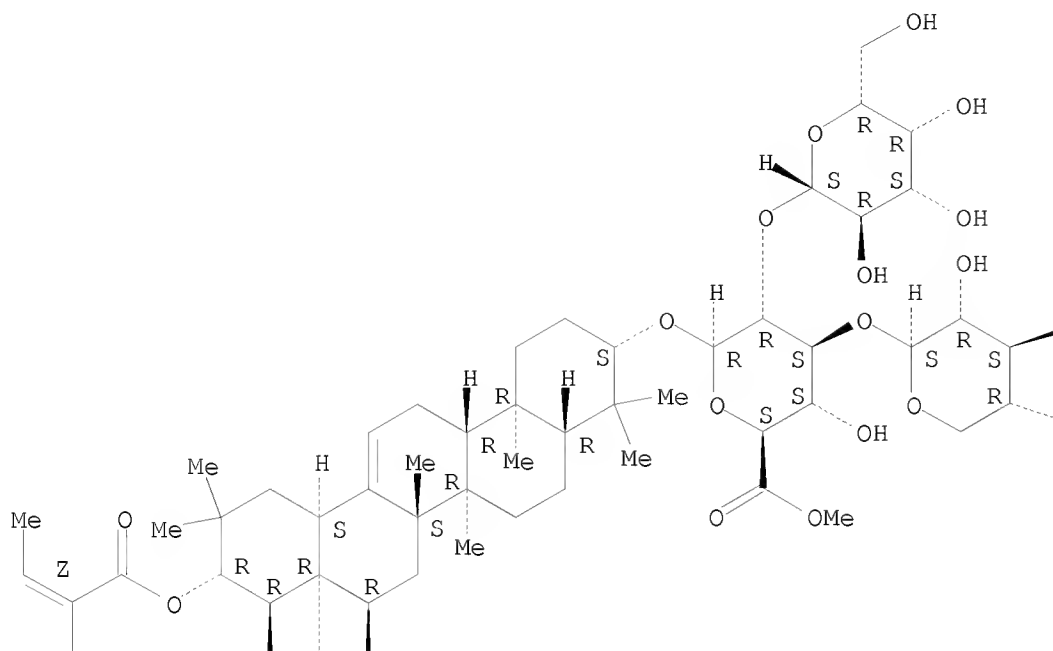
Double bond geometry as shown.



RN 849637-47-4 HCAPLUS

CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
16,28-dihydroxy-21,22-bis[[(2Z)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-
yl O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-
(1 \rightarrow 3)]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

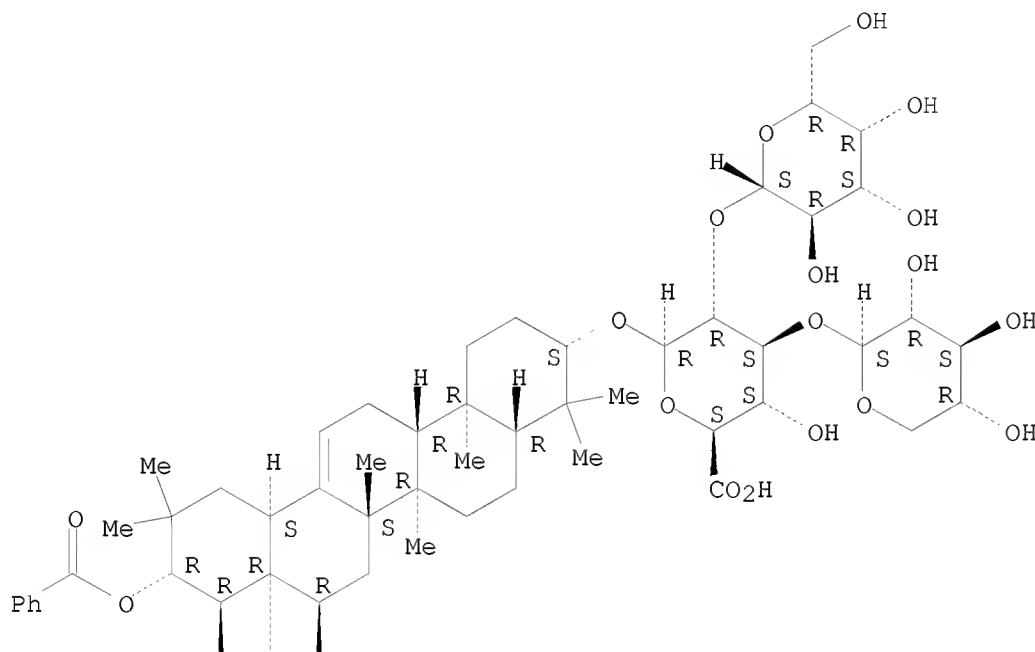


RN 849818-09-3 HCAPLUS

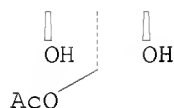
CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
28-(acetyloxy)-21-(benzoyloxy)-16,22-dihydroxyolean-12-en-3-yl
O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-
(1 \rightarrow 3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

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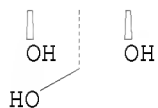
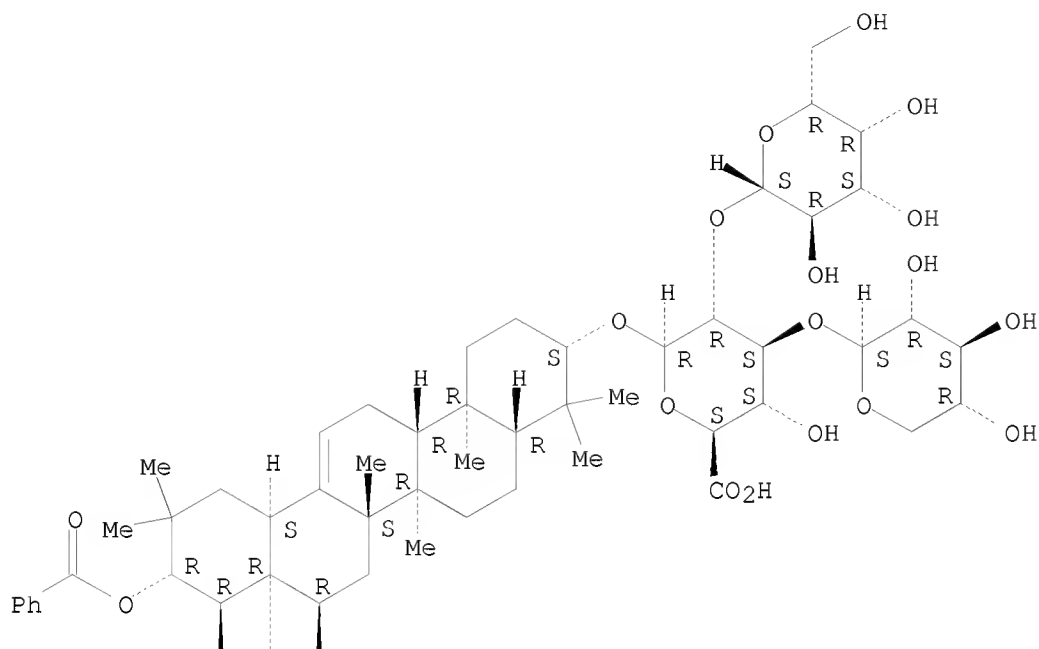
PAGE 2-A



RN 849818-13-9 HCAPLUS

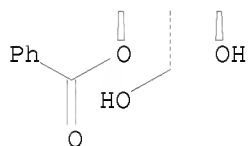
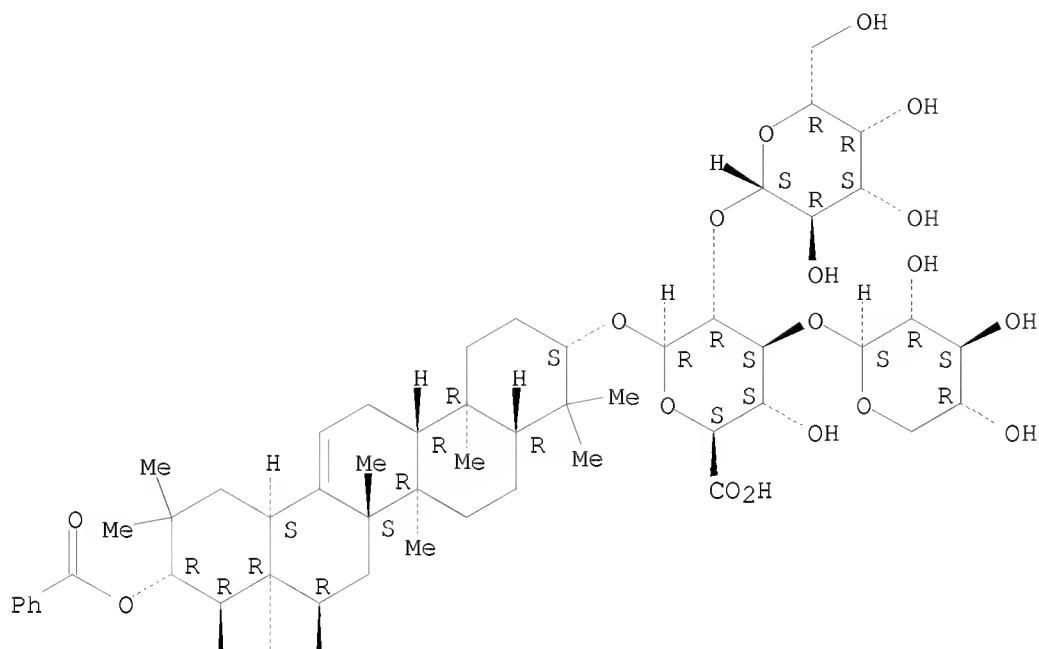
CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
21-(benzoyloxy)-16,22,28-trihydroxyolean-12-en-3-yl O- β -D-
galactopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-(1 \rightarrow 3)]-
(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



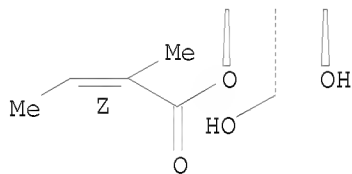
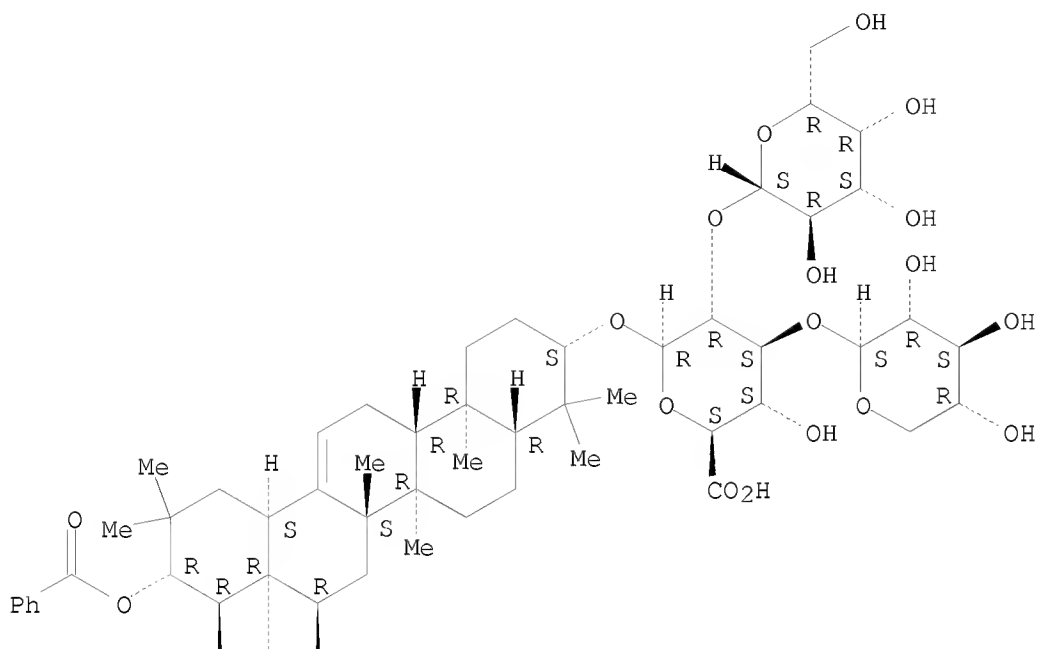
RN 849818-20-8 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
 21,22-bis(benzoyloxy)-16,28-dihydroxyolean-12-en-3-yl O- β -D-
 galactopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-(1 \rightarrow 3)]-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



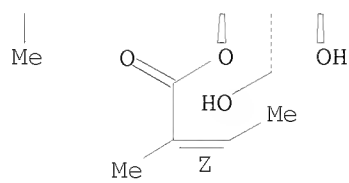
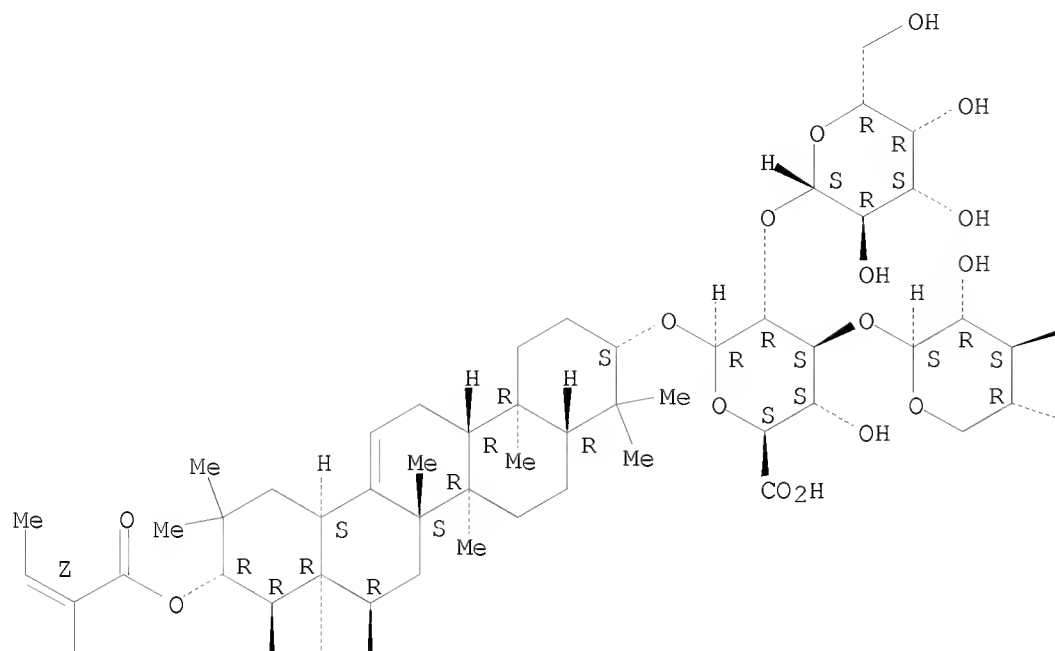
RN 849818-23-1 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
 21-(benzoyloxy)-16,28-dihydroxy-22-[[(2Z)-2-methyl-1-oxo-2-
 butenyl]oxy]olean-12-en-3-yl O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-
 [β -D-xylopyranosyl-(1 \rightarrow 3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
 Double bond geometry as shown.



RN 849818-26-4 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β , 16 α , 21 β , 22 α)-
 16,28-dihydroxy-21,22-bis[[(2Z)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-
 yl O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-
 (1 \rightarrow 3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
 Double bond geometry as shown.

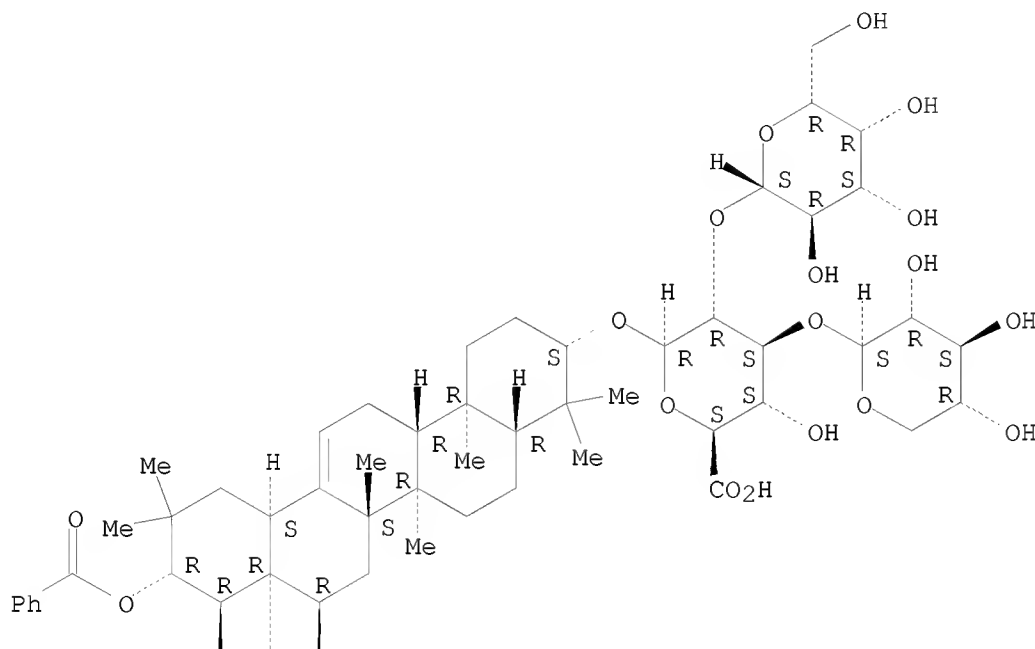


RN 853306-55-5 HCAPLUS

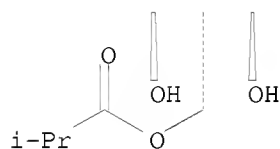
CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
21-(benzoyloxy)-16,22-dihydroxy-28-(2-methyl-1-oxopropoxy)olean-12-en-3-yl
O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-(1 \rightarrow 3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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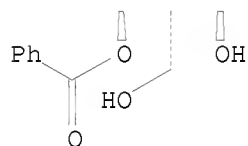
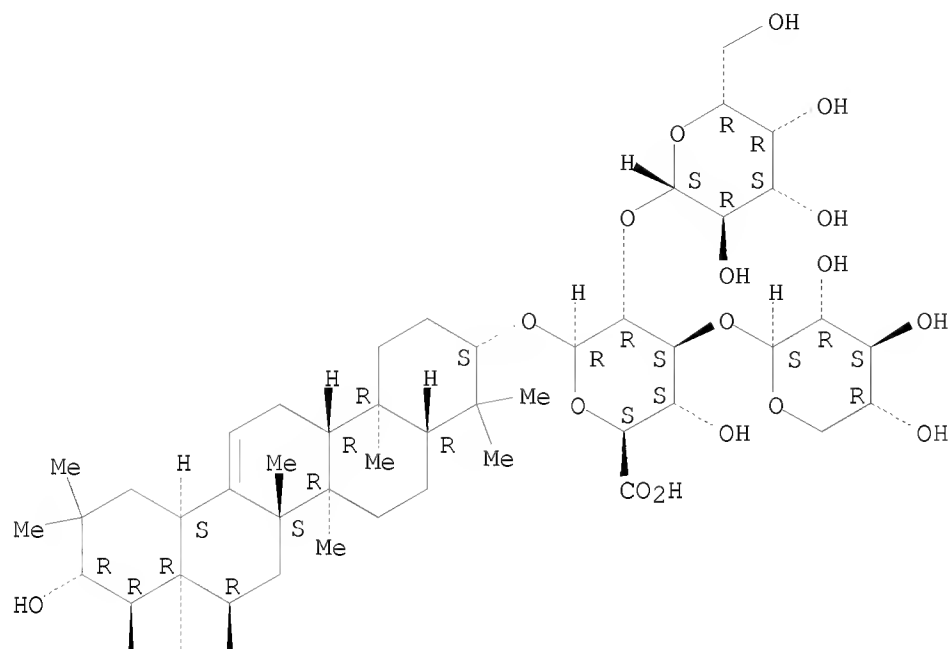
PAGE 2-A



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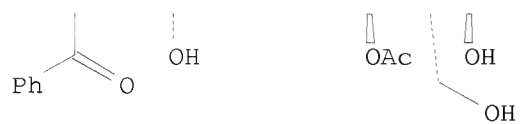
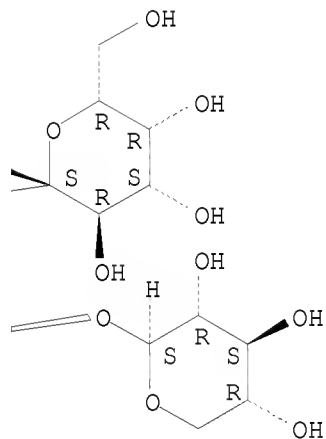
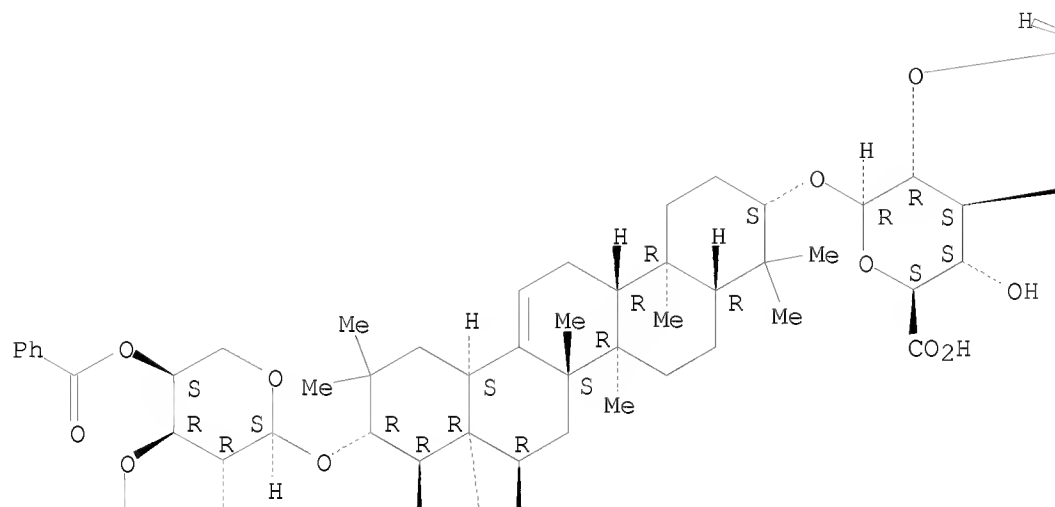
CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
22-(benzoyloxy)-16,21,28-trihydroxyolean-12-en-3-yl O- β -D-
galactopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-(1 \rightarrow 3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 853306-60-2 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
 22-(acetyloxy)-21-[(3,4-di-O-benzoyl- α -L-arabinopyranosyl)oxy]-16,28-
 dihydroxyolean-12-en-3-yl O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-
 [β -D-xylopyranosyl-(1 \rightarrow 3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

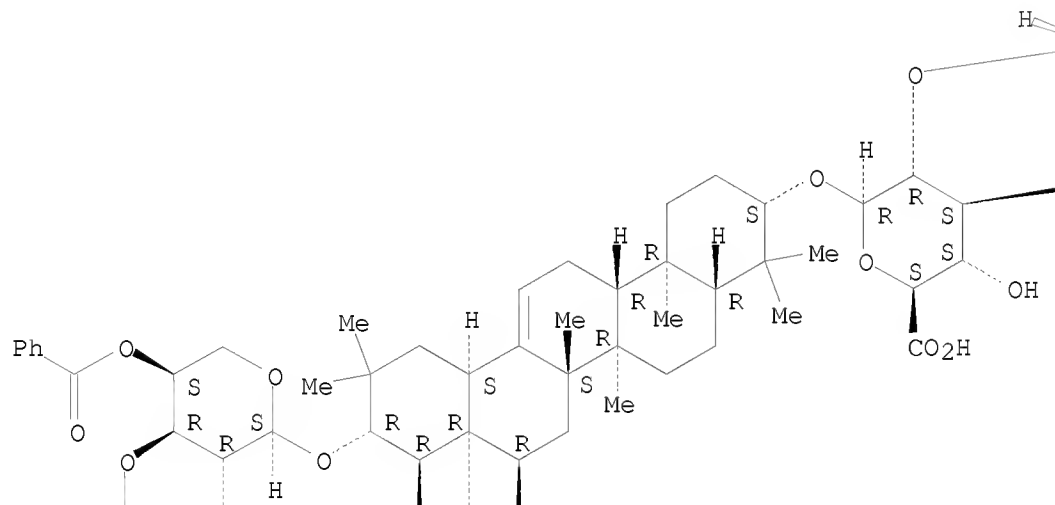


RN 853306-62-4 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β , 16 α , 21 β , 22 α)-

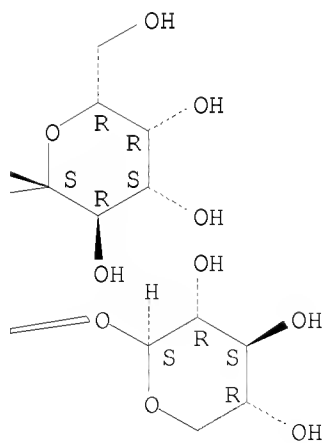
28-(acetyloxy)-21-[(3,4-di-O-benzoyl- α -L-arabinopyranosyl)oxy]-16,22-dihydroxyolean-12-en-3-yl O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-(1 \rightarrow 3)]- (9CI) (CA INDEX NAME)

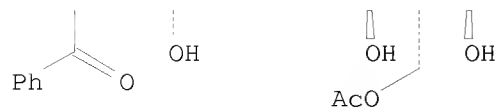
Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

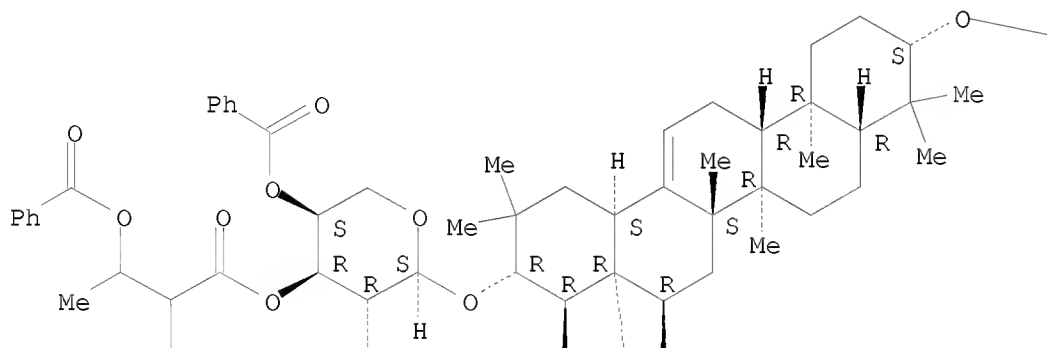


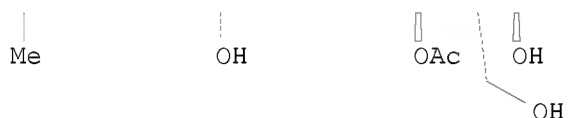
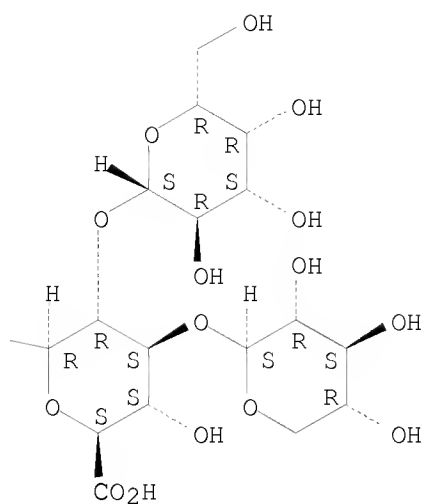


RN 853308-40-4 HCAPLUS

CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
 22-(acetyloxy)-21-[[4-O-benzoyl-3-O-[3-(benzoyloxy)-2-methyl-1-oxobutyl]-
 α -L-arabinopyranosyl]oxy]-16,28-dihydroxyolean-12-en-3-yl
 O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-
 (1 \rightarrow 3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

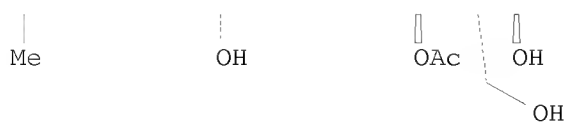
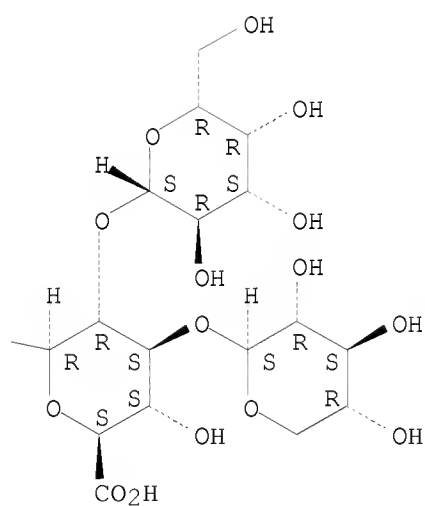
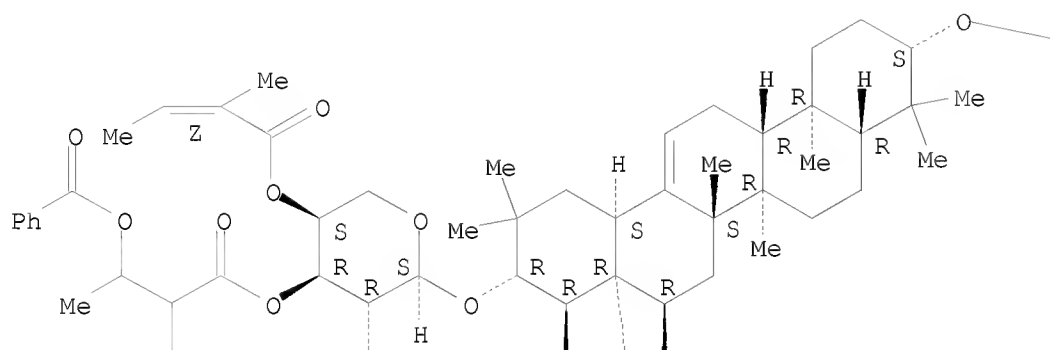




RN 853308-41-5 HCAPLUS

CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
22-(acetyloxy)-21-[[3-O-[3-(benzoyloxy)-2-methyl-1-oxobutyl]-4-O-[(2Z)-2-
methyl-1-oxo-2-butenyl]- α -L-arabinopyranosyl]oxy]-16,28-
dihydroxyolean-12-en-3-yl O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-
[β -D-xylopyranosyl-(1 \rightarrow 3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

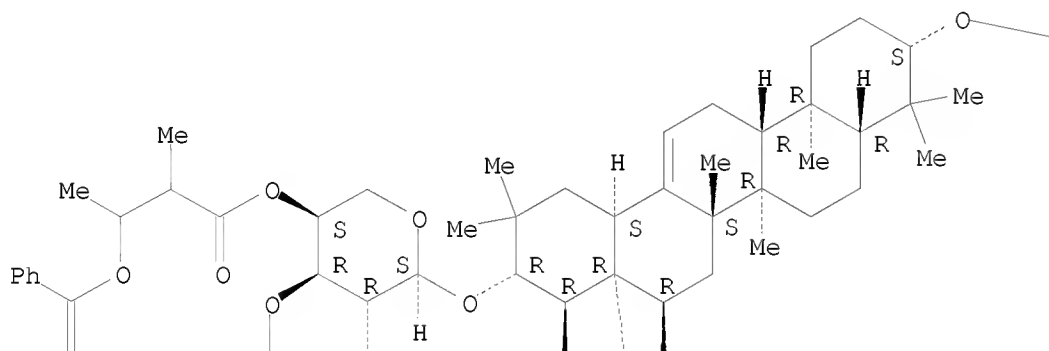


RN 853308-42-6 HCAPLUS

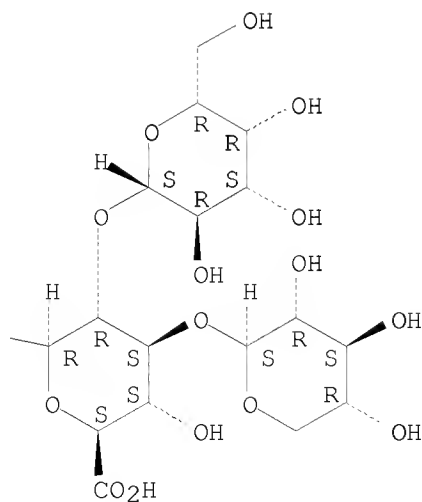
CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
22-(acetyloxy)-21-[[4-O-[3-(benzoyloxy)-2-methyl-1-oxobutyl]-3-O-[(2Z)-2-
methyl-1-oxo-2-butenyl]- α -L-arabinopyranosyl]oxy]-16,28-
dihydroxyolean-12-en-3-yl O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-
[β -D-xylopyranosyl-(1 \rightarrow 3)]- (9CI) (CA INDEX NAME)

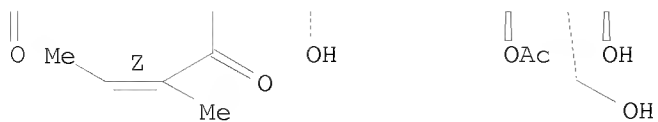
Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

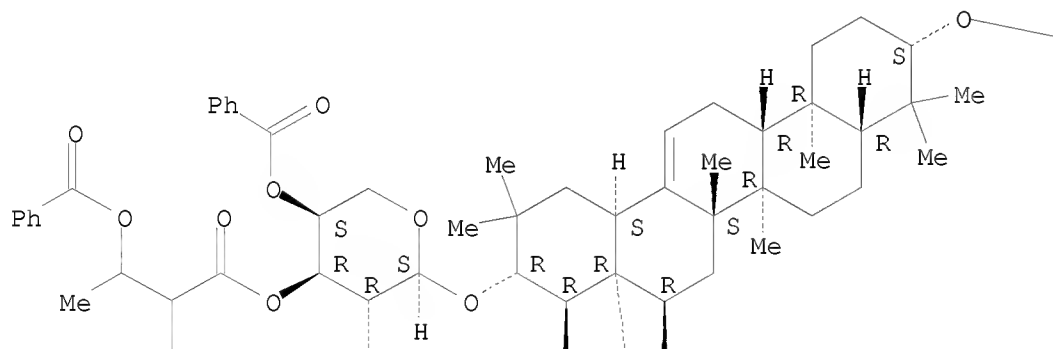


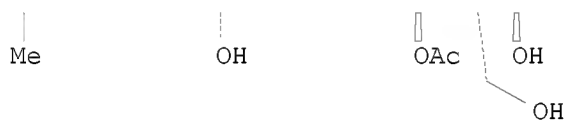
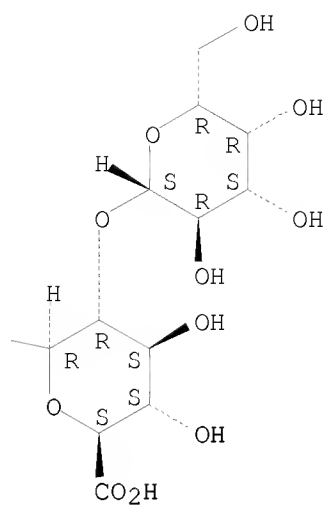


RN 853308-43-7 HCAPLUS

CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
 22-(acetyloxy)-21-[[4-O-benzoyl-3-O-[3-(benzoyloxy)-2-methyl-1-oxobutyl]-
 α -L-arabinopyranosyl]oxy]-16,28-dihydroxyolean-12-en-3-yl
 2-O- β -D-galactopyranosyl- (9CI) (CA INDEX NAME)

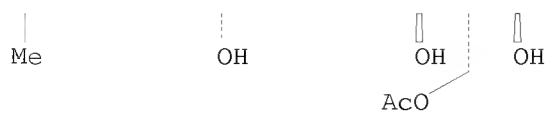
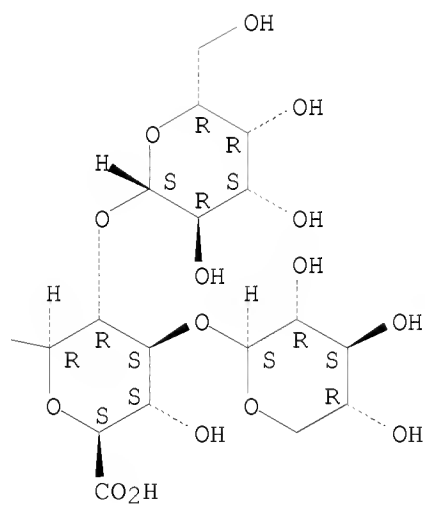
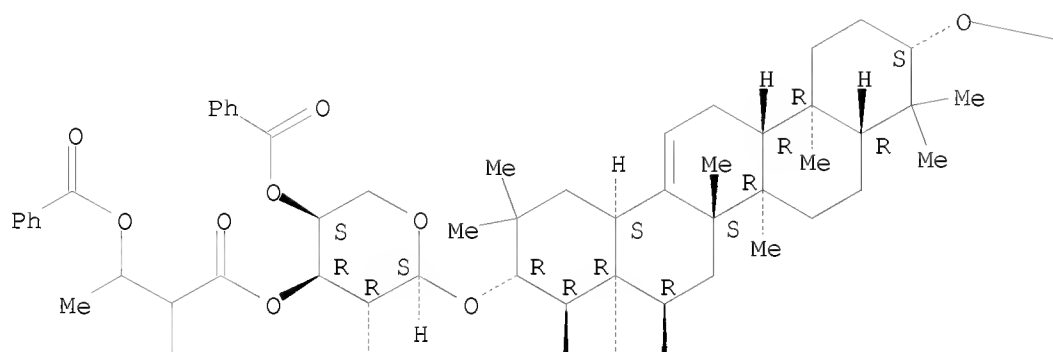
Absolute stereochemistry.





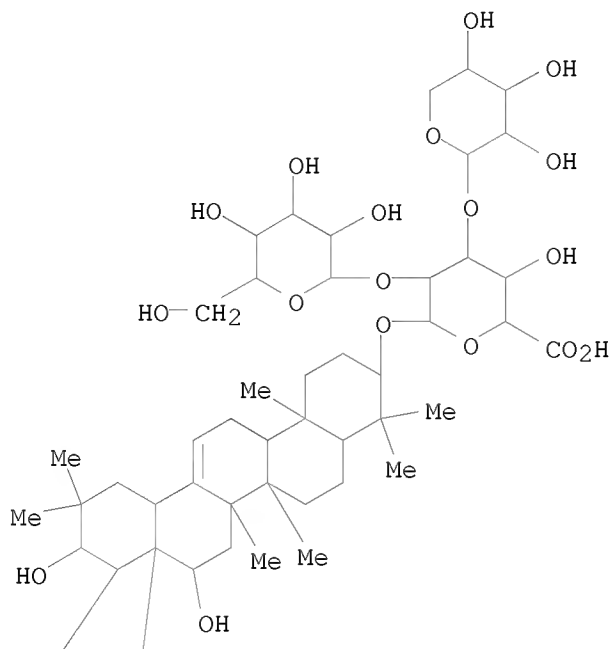
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Absolute stereochemistry.

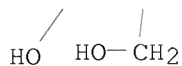


IT 155740-17-3DP, Barringtonside A, derivs. 155836-06-9DP,
 Barringtonside C, derivs.
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)
 (novel analgesic compds., exts. containing same and methods of preparation)
 RN 155740-17-3 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
 16,21,22,28-tetrahydroxyolean-12-en-3-yl O- β -D-galactopyranosyl-
 (1 \rightarrow 2)-O-[β -D-xylopyranosyl-(1 \rightarrow 3)]- (9CI) (CA INDEX
 NAME)

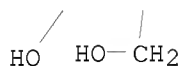
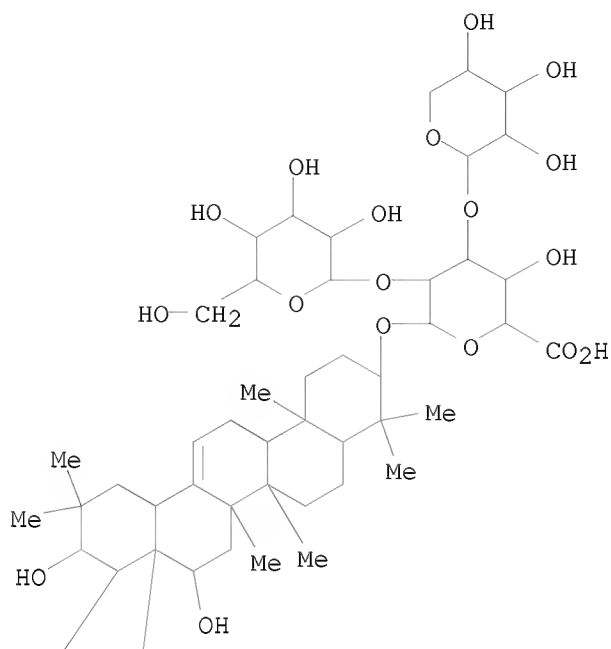
PAGE 1-A



PAGE 2-A



RN 155836-06-9 HCAPLUS
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 (1 \rightarrow 3)-O-[β -D-galactopyranosyl-(1 \rightarrow 2)]- (9CI) (CA INDEX
 NAME)



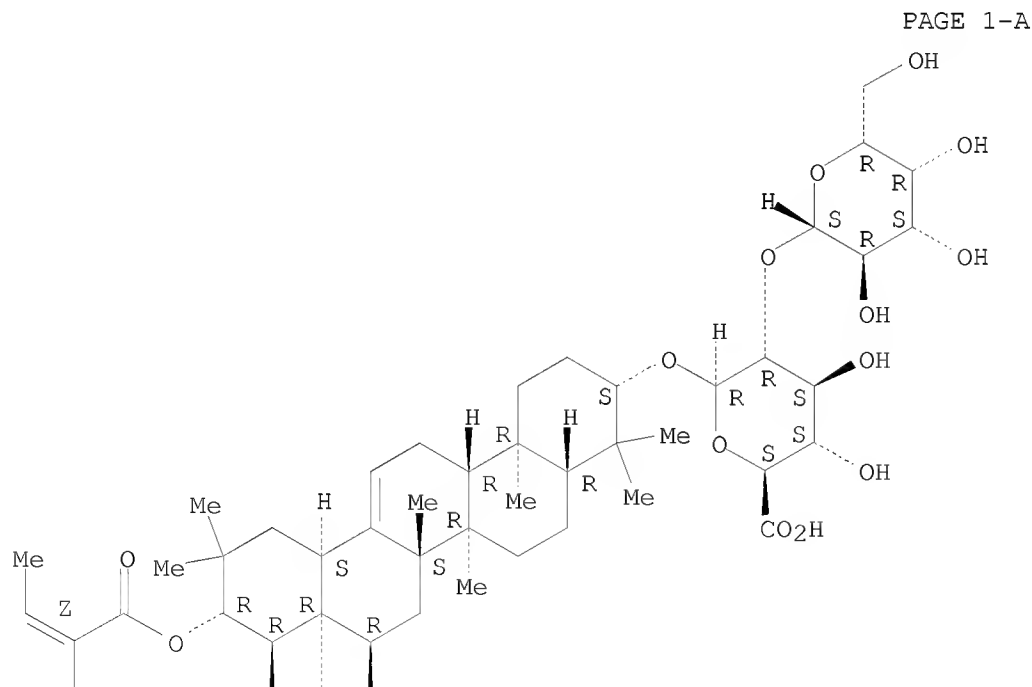
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

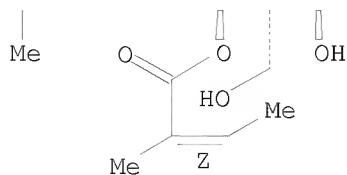
L4 ANSWER 4 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Haemolytic acylated triterpenoid saponins from *Harpullia austro-caledonica*
AB Eight new acylated triterpenoid saponins were isolated from the stem bark of *Harpullia austro-caledonica* along with the known harpuloside (9). Their structures were established using 1D and 2D NMR and mass spectrometry as 3-O- β -D-galactopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranosyl-21 β , 22 α -di-O-angeloylbarringtogenol C (1), 3-O- α -L-rhamnopyranosyl-(1 \rightarrow 3)-[β -D-galactopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl-21 β , 22 α -di-O-angeloyl barringtogenol C (2), 3-O- α -L-arabinofuranosyl-(1 \rightarrow 3)-[β -D-galactopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl-21 β , 22 α -di-O-angeloylbarringtogenol C (3), 3-O- α -L-arabinofuranosyl-(1 \rightarrow 2)- β -D-glucuronopyranosyl-21 β , 22 α -di-O-angeloylprotoaescigenin (4), 3-O- α -L-arabinofuranosyl-(1 \rightarrow 3)-[α -L-arabinofuranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl-21 β , 22 α -di-O-angeloyl protoaescigenin (5), 3-O- α -L-arabinofuranosyl-(1 \rightarrow 3)-[β -D-xylopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl-21 β , 22 α -di-O-angeloylprotoaescigenin (6), 3-O- α -L-arabinofuranosyl-(1 \rightarrow 3)-[β -D-glucopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranosyl-21 β , 22 α -di-O-angeloylprotoaescigenin (7), 3-O- β -D-xylopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranosyl-

21 β , 22 α -di-O-angeloylprotoaescigenin (8). The EtOH extract of the stem bark showed in vitro cytotoxic activity against KB cells (90% at 10 μ g/mL). At a concentration of 5 μ g/mL, the saponin mixture showed hemolytic activity and caused 100% hemolysis of a 10% suspension of sheep erythrocytes.

AN 2005:265703 HCAPLUS <<LOGINID::20080924>>
 DN 143:4146
 TI Haemolytic acylated triterpenoid saponins from *Harpullia austro-caledonica*
 AU Voutquenne, Laurence; Guinot, Pauline; Froissard, Clement; Thoison, Odile; Litaudon, Marc; Lavaud, Catherine
 CS Laboratoire de Pharmacognosie, IFR 53 Biomolécules, FRE CNRS 2715, Reims, 51097, Fr.
 SO Phytochemistry (Elsevier) (2005), 66(7), 825-835
 CODEN: PYTCAS; ISSN: 0031-9422
 PB Elsevier B.V.
 DT Journal
 LA English
 IT 852361-60-5P
 RL: BSU (Biological study, unclassified); NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
 (hemolytic acylated triterpenoid saponins from *Harpullia austrocaledonica*)
 RN 852361-60-5 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-16,28-dihydroxy-21,22-bis[[(2Z)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-yl 2-O- β -D-galactopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.

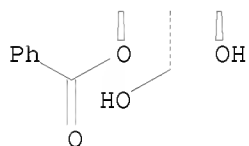
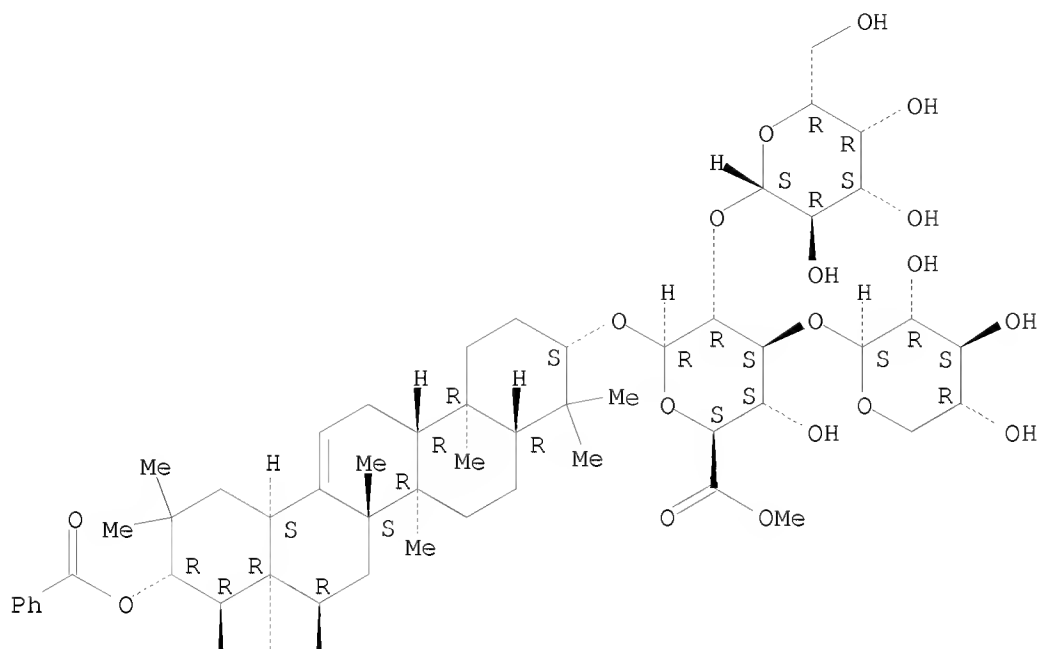




RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

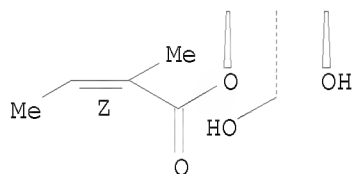
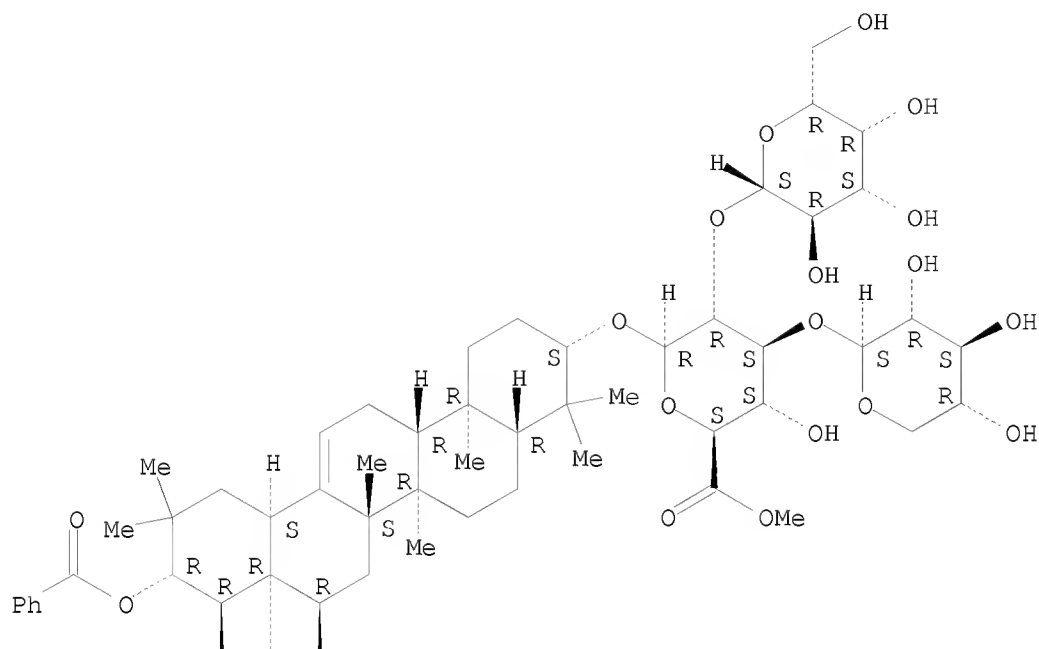
L4 ANSWER 5 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Acutangulosides A-F, monodesmosidic saponins from the bark of *Barringtonia acutangula*
 AB Nine triterpene saponins, acutangulosides A-F, acutanguloside D-F Me esters, and a single triterpene aglycon were isolated from a water extract of the bark of *Barringtonia acutangula*. Their structures were assigned on the basis of spectroscopic data.
 AN 2005:128141 HCAPLUS <<LOGINID::20080924>>
 DN 142:389142
 TI Acutangulosides A-F, monodesmosidic saponins from the bark of *Barringtonia acutangula*
 AU Mills, Clive; Carroll, Anthony R.; Quinn, Ronald J.
 CS Natural Product Discovery, Eskitis Institute, Griffith University, Brisbane, 4111, Australia
 SO Journal of Natural Products (2005), 68(3), 311-318
 CODEN: JNPRDF; ISSN: 0163-3864
 PB American Chemical Society
 DT Journal
 LA English
 IT 849637-45-2, Acutanguloside D methyl ester 849637-46-3, Acutanguloside E methyl ester 849637-47-4, Acutanguloside F methyl ester 849818-06-0, Acutanguloside A 849818-09-3, Acutanguloside B 849818-13-9, Acutanguloside C 849818-20-8, Acutanguloside D 849818-23-1, Acutanguloside E 849818-26-4, Acutanguloside F
 RL: BSU (Biological study, unclassified); BIOL (Biological study) (saponins from bark of *Barringtonia acutangula*)
 RN 849637-45-2 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-21,22-bis(benzoyloxy)-16,28-dihydroxyolean-12-en-3-yl O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-(1 \rightarrow 3)]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 849637-46-3 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
 21-(benzoyloxy)-16,28-dihydroxy-22-[[(2Z)-2-methyl-1-oxo-2-
 butenyl]oxy]olean-12-en-3-yl O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-
 [β -D-xylopyranosyl-(1 \rightarrow 3)]-, methyl ester (9CI) (CA INDEX
 NAME)

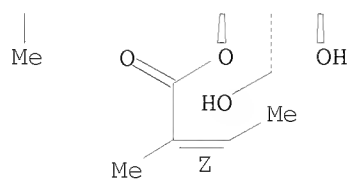
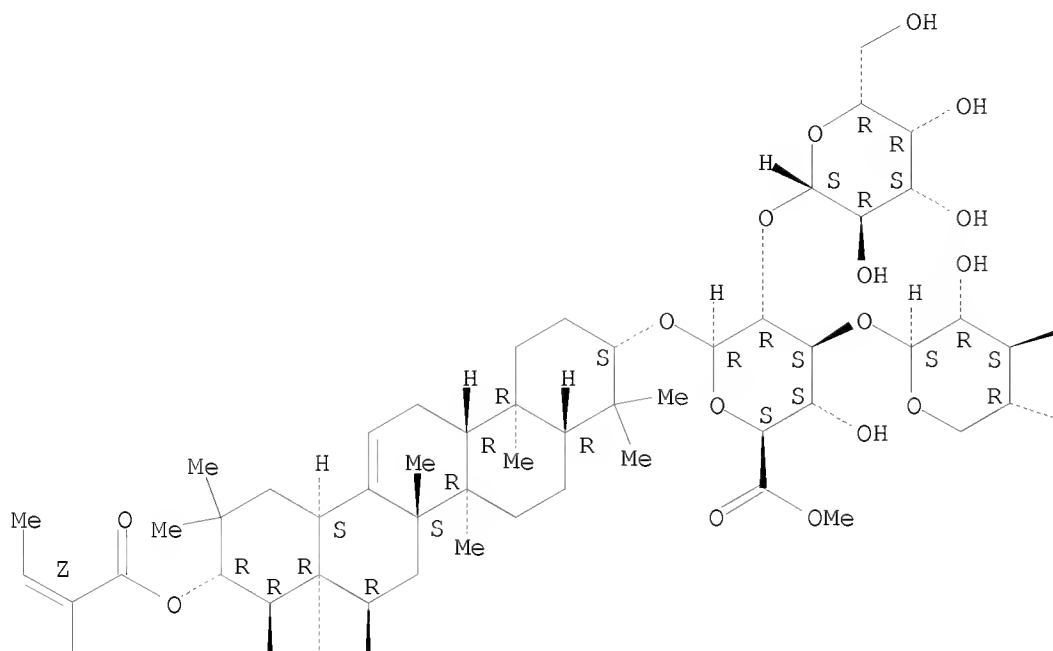
Absolute stereochemistry. Rotation (-).
 Double bond geometry as shown.



RN 849637-47-4 HCAPLUS

CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
16,28-dihydroxy-21,22-bis[[(2Z)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-
yl O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-
(1 \rightarrow 3)]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

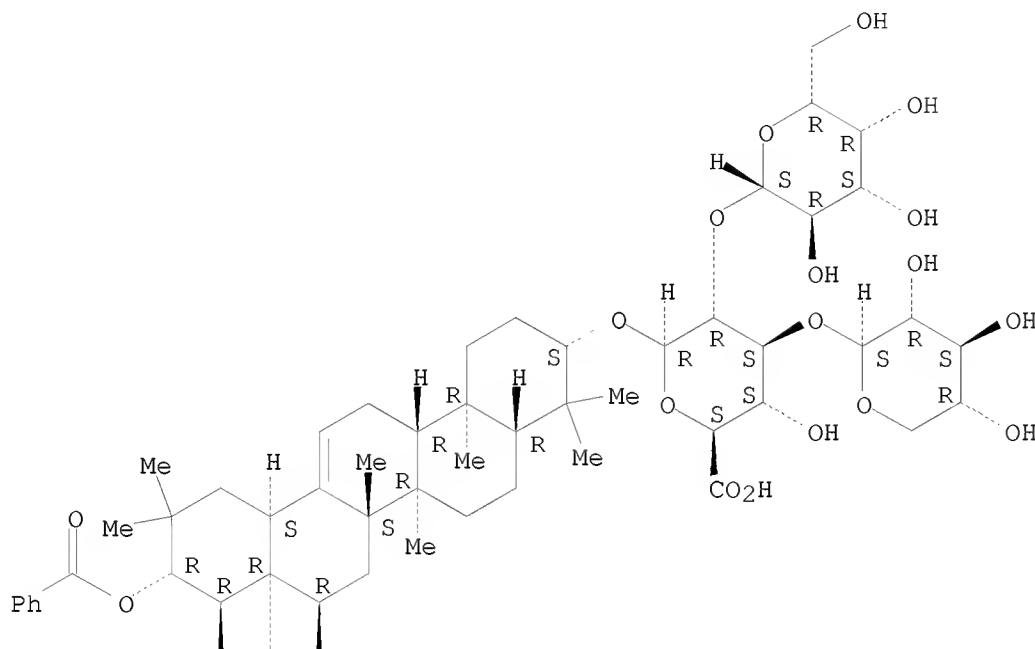


RN 849818-06-0 HCAPLUS

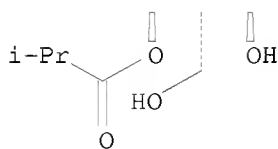
CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
21-(benzoyloxy)-16,28-dihydroxy-22-(2-methyl-1-oxopropoxy)olean-12-en-3-yl
O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-
(1 \rightarrow 3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

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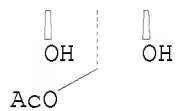
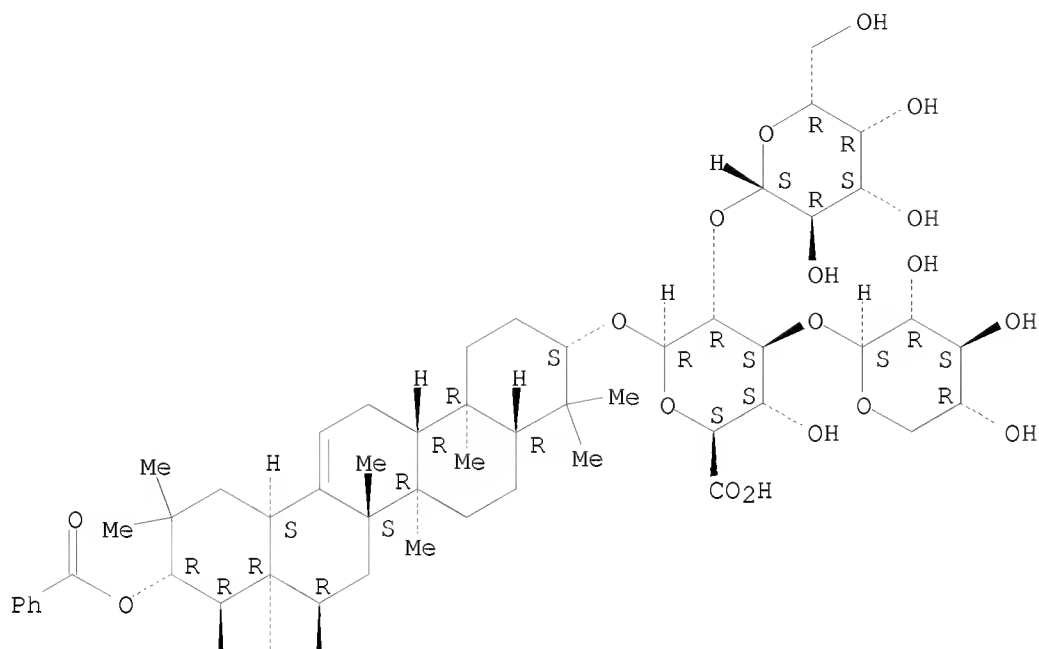
PAGE 2-A



RN 849818-09-3 HCAPLUS

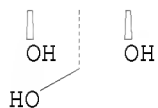
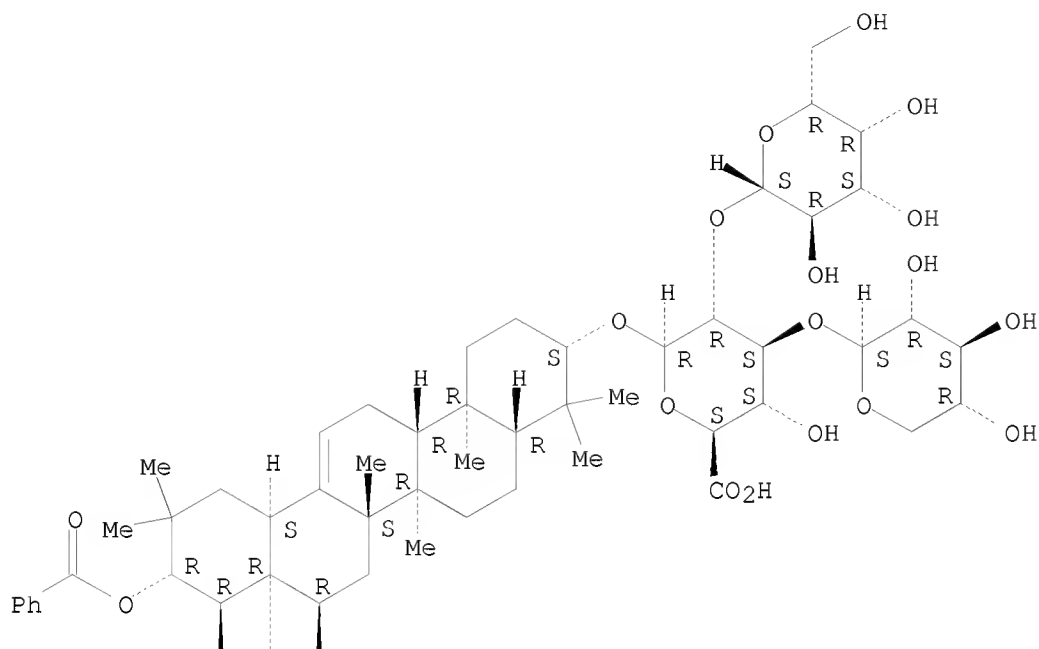
CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
28-(acetyloxy)-21-(benzoyloxy)-16,22-dihydroxyolean-12-en-3-yl
O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-
(1 \rightarrow 3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



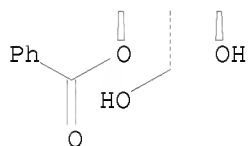
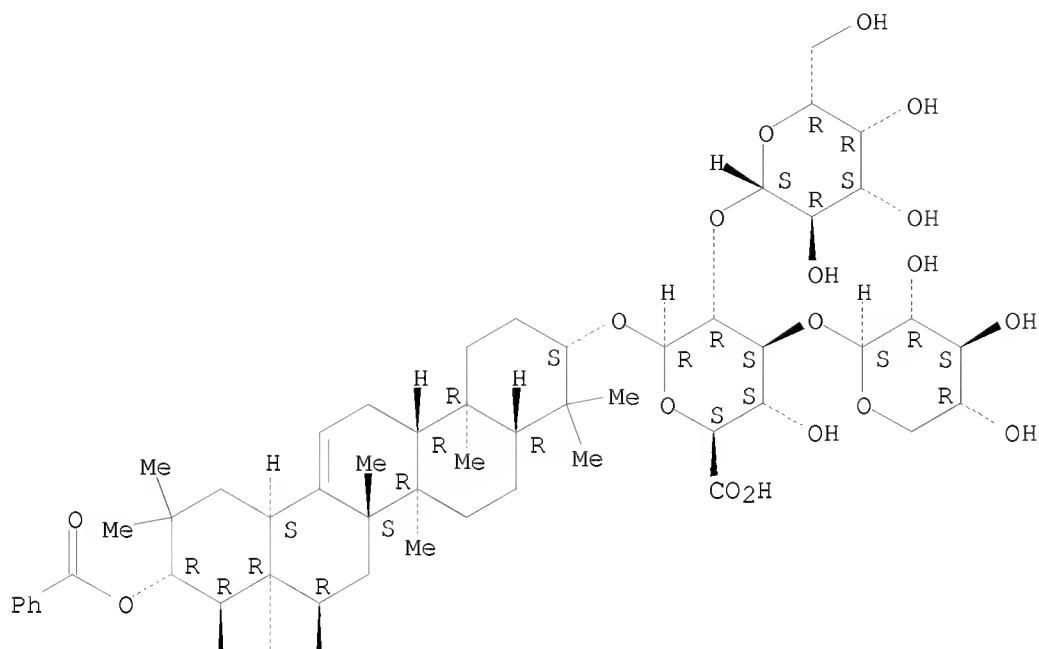
RN 849818-13-9 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
 21-(benzoyloxy)-16,22,28-trihydroxyolean-12-en-3-yl O- β -D-
 galactopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-(1 \rightarrow 3)]-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



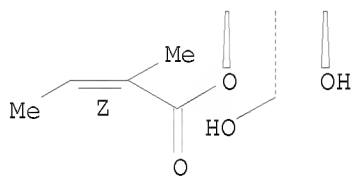
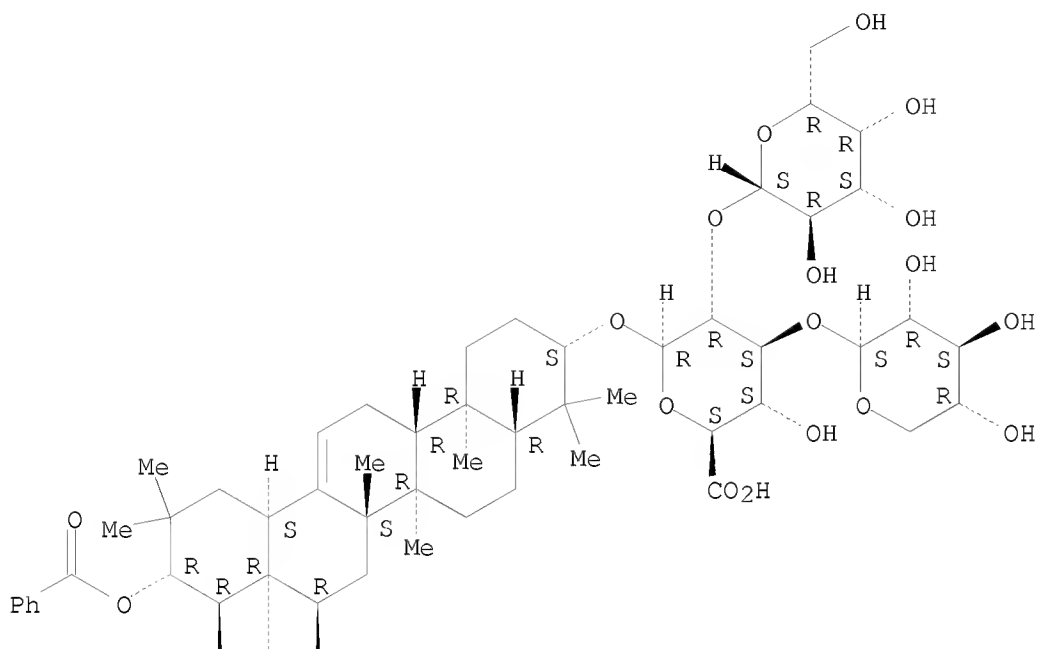
RN 849818-20-8 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
 21,22-bis(benzoyloxy)-16,28-dihydroxyolean-12-en-3-yl O- β -D-
 galactopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-(1 \rightarrow 3)]-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



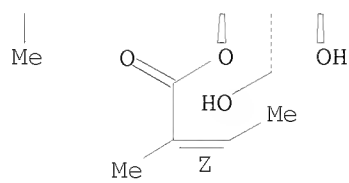
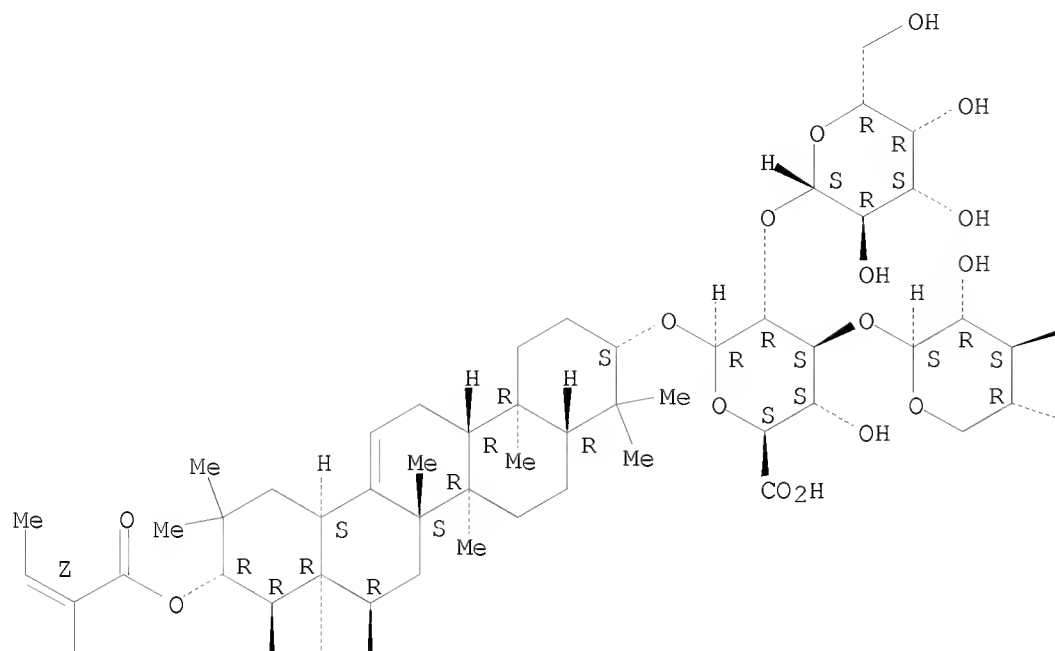
RN 849818-23-1 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
 21-(benzoyloxy)-16,28-dihydroxy-22-[[(2Z)-2-methyl-1-oxo-2-
 butenyl]oxy]olean-12-en-3-yl O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-
 [β -D-xylopyranosyl-(1 \rightarrow 3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
 Double bond geometry as shown.



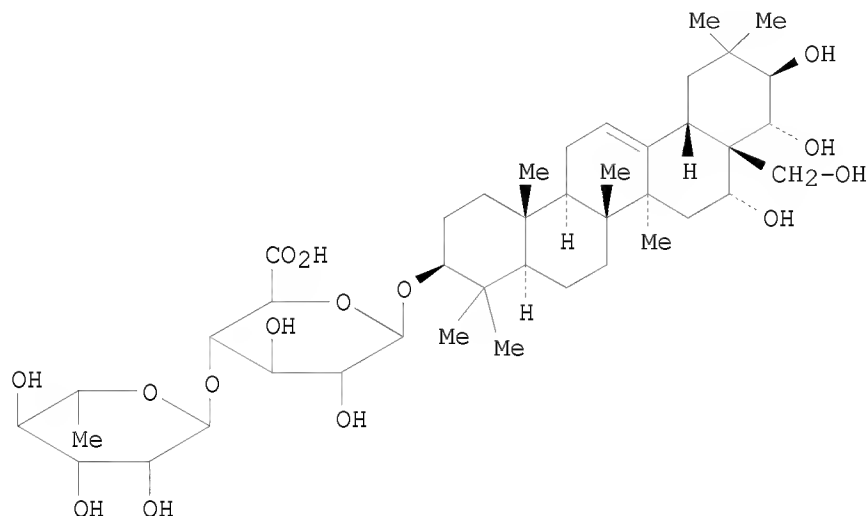
RN 849818-26-4 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β , 16 α , 21 β , 22 α)-
 16,28-dihydroxy-21,22-bis[[(2Z)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-
 yl O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-
 (1 \rightarrow 3)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
 Double bond geometry as shown.



RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Acylated triterpenoid saponins from the stem bark of *Foetidia africana*
GI



AB Nine new acylated triterpenoid saponins (e.g. I) were isolated from the stem bark of *Foetidia africana*. They all possess barringtogenol C as the aglycon, esterified by acetic and/or isovaleric acids. The sugar chain consists of up to three units: D-glucuronic acid (GlcUA) linked to C-3 of the aglycon and substituted by D-galactose (Gal) (at GlcUA C-2) and/or L-rhamnose (Rha) (at GlcUA C-4). The structures were established by acid and alkaline hydrolysis, by NMR expts. including 1H-1H (COSY, HOHAHA, ROESY) and 1H-13C (HSQC, HMBC) spectroscopy, and by mass spectrometry (ESIMS, ESIMSn).

AN 2002:691707 HCAPLUS <<LOGINID::20080924>>
DN 137:349281

TI Acylated triterpenoid saponins from the stem bark of *Foetidia africana*
AU Crublet, Marie-Laure; Pouny, Isabelle; Delaude, Clement; Lavaud, Catherine
CS Laboratoire de Pharmacognosie, UMR 6013 CNRS, Reims, 51097, Fr.
SO Journal of Natural Products (2002), 65(11), 1560-1567
CODEN: JNPRDF; ISSN: 0163-3864

PB American Chemical Society

DT Journal

LA English

IT 474967-20-9P 474967-21-0P

RL: NPO (Natural product occurrence); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)

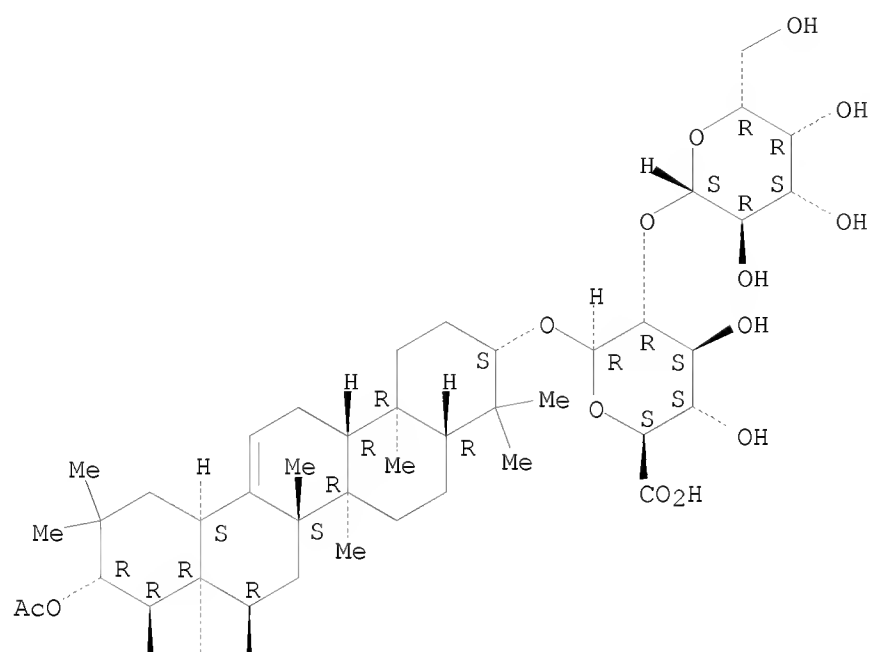
(acylated triterpenoid saponins from *Foetidia africana*)

RN 474967-20-9 HCAPLUS

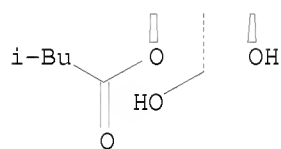
CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
21-(acetyloxy)-16,28-dihydroxy-22-(3-methyl-1-oxobutoxy)olean-12-en-3-yl
2-O- β -D-galactopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

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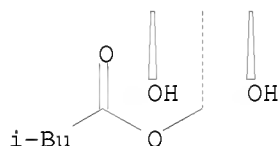
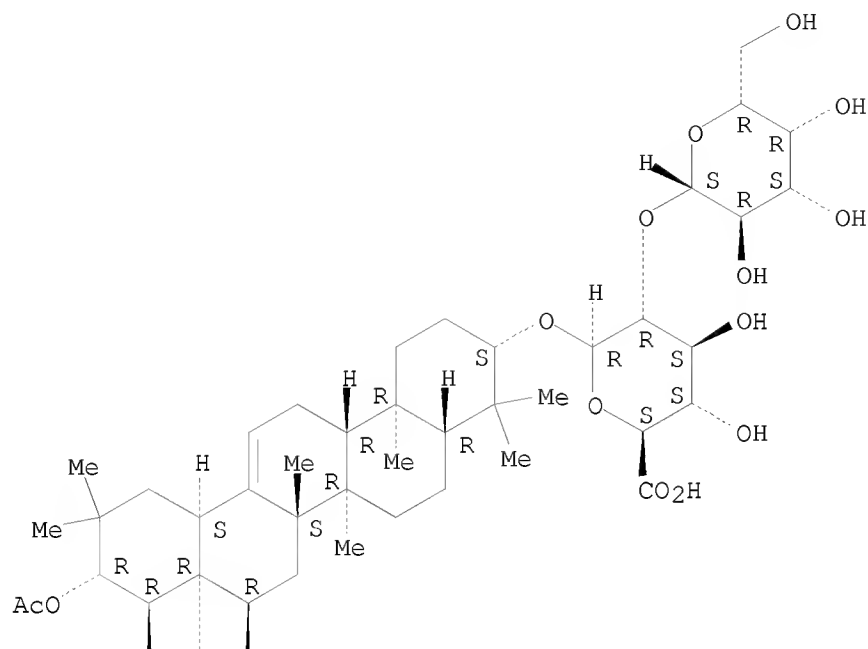


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RN 474967-21-0 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
 21-(acetyloxy)-16,22-dihydroxy-28-(3-methyl-1-oxobutoxy)olean-12-en-3-yl
 2-O- β -D-galactopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



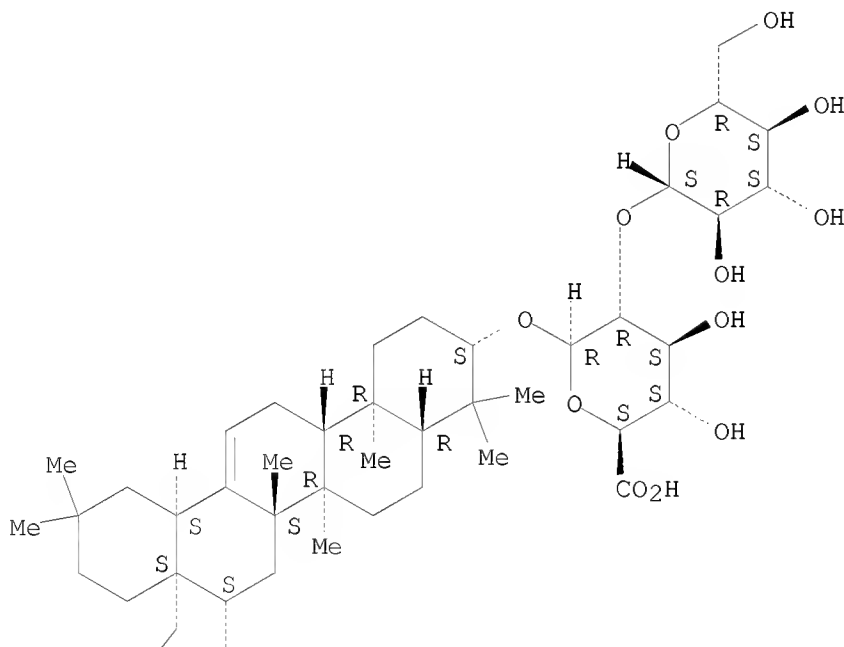
RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Structure-activity relationships of triterpenoid derivatives extracted from *Gymnema inodorum* leaves on glucose absorption
 AB The leaves of *Gymnema inodorum* (GI) have been known to be effective for some diseases including diabetes mellitus, rheumatic arthritis and gout. The crude saponin mixts. extracted from GI leaves inhibited glucose absorption in the isolated intestinal tract and suppressed the increased blood glucose in rats. In this study, we examined the relationship between chemical structure and pharmacol. activity of the four components from GI leave exts. (GiA-1, GiA-2, GiA-5 and GiA-7). These components were the derivs. of (3 β , 4 α , 16 β)-16, 23, 28-trihydroxyolean-12-en-3-yl- β -D-glucopyranosiduroic acid. GiA-2, GiA-5 and GiA-7 that have suppressive effects on the high K⁺-induced contraction, an increase in Δ PD and the increased blood glucose level in the glucose tolerance test have -H at the 21st position and -CH₂OH at 4 β of the aglycon. On the other hand, GiA-1 that does not have any effects on the three parameters mentioned above has -H at the 21st position and -CH₃ at 4 β of aglycon. In conclusion, it is suggested that the inhibitory effect of triterpenoids in *Gymnema* leaves on glucose absorption from the intestinal

tract relies on -CH₂OH at 4 β .
AN 2001:473204 HCAPLUS <<LOGINID::20080924>>
DN 135:282672
TI Structure-activity relationships of triterpenoid derivatives extracted
from *Gymnema inodorum* leaves on glucose absorption
AU Shimizu, Kazumasa; Ozeki, Mie; Iino, Akira; Nakajyo, Shinjiro; Urakawa,
Norimoto; Atsuchi, Mikito
CS Division of Veterinary Pharmacology, Nippon Veterinary and Animal Science
University, Musashino, 180-8602, Japan
SO Japanese Journal of Pharmacology (2001), 86(2), 223-229
CODEN: JJPAAZ; ISSN: 0021-5198
PB Japanese Pharmacological Society
DT Journal
LA English
IT 150975-93-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); PUR (Purification or recovery); BIOL (Biological
study); PREP (Preparation)
(structure-activity relationships of triterpenoid derivs. extracted from
Gymnema inodorum leaves on intestinal absorption of glucose)
RN 150975-93-2 HCAPLUS
CN β -D-Glucopyranosiduronic acid, (3 β ,16 β)-16,28-
dihydroxyolean-12-en-3-yl 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX
NAME)

Absolute stereochemistry. Rotation (+).

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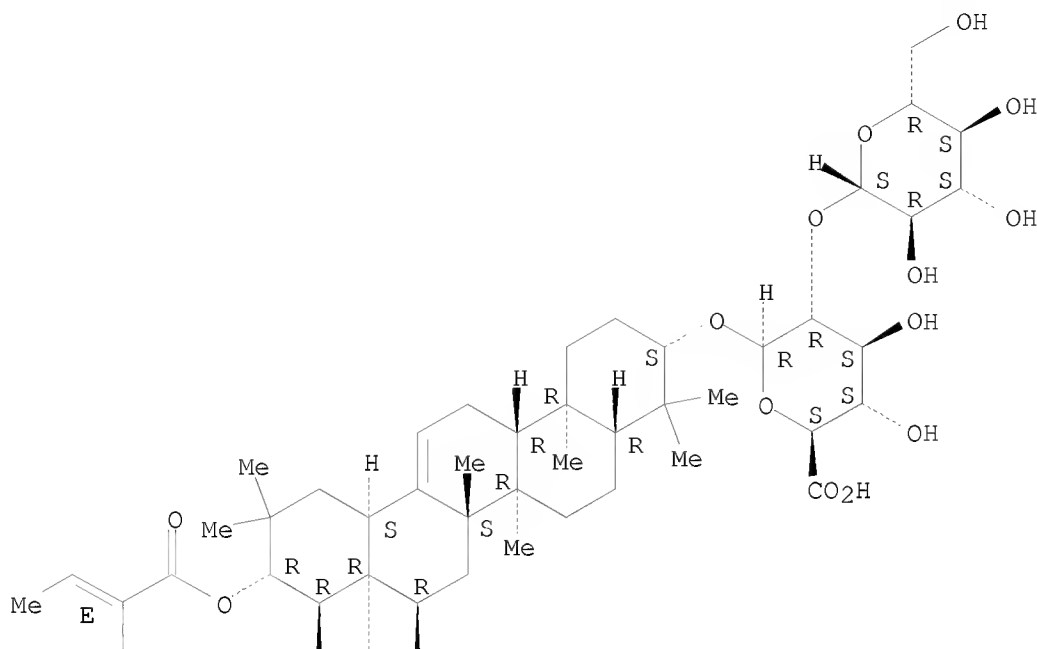
PAGE 2-A



RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Triterpenoid saponins from *Berneuxia thibetica*
AB Four triterpenoid saponins were isolated from *Berneuxia thibetica*. On the basis of chemical and spectroscopic evidence, three new saponins, berneuxia saponins A, B and C, were elucidated as 21-O-tigloylbarringtogenol C 3-O- $\{\alpha$ -L-rhamnopyranosyl(1 \rightarrow 2)- β -D-galactopyranosyl(1 \rightarrow 3) [β -D-glucopyranosyl (1 \rightarrow 2)- β -D-glucuronopyranoside]}, 28-O-tigloylbarringtogenol C 3-O- $\{\alpha$ -L-rhamnopyranosyl(1 \rightarrow 2)- β -D-galactopyranosyl(1 \rightarrow 3) [β -D-glucopyranosyl(1 \rightarrow 2)- β -D-glucuronopyranoside]}, and 16 α -28-dihydroxyolean-12-en-21-one 3 β -O- $\{\alpha$ -L-rhamnopyranosyl(1 \rightarrow 2)- β -D-galactopyranosyl(1 \rightarrow 3) [β -D-glucopyranosyl(1 \rightarrow 2)- β -D-glucuronopyranoside]}, resp. The fourth compound isolated was the known saponin, desacyljegosaponin.
AN 1998:549504 HCAPLUS <<LOGINID::20080924>>
DN 129:287800
OREF 129:58585a,58588a
TI Triterpenoid saponins from *Berneuxia thibetica*
AU Wang, Ming-Kui; Cai, Hong; Peng, Shu-Lin; Ding, Li-Sheng; Wu, Feng-E.; Cien, Yao-Zu
CS Laboratory of Natural Materia Medica, Chengdu Institute of Biology, Chinese Academy of Sciences, Chengdu, 610041, Peop. Rep. China
SO Phytochemistry (1998), 48(8), 1411-1414
CODEN: PYTCAS; ISSN: 0031-9422
PB Elsevier Science Ltd.
DT Journal
LA English
IT 214216-46-3P, 21-O-Tigloylbarringtogenol C 3-O- $[\beta$ -D-glucopyranosyl (1 \rightarrow 2)- β -D-glucuronopyranoside]
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (isolation and mol. structure of triterpenoid saponins from *Berneuxia thibetica*)
RN 214216-46-3 HCAPLUS
CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-16,22,28-trihydroxy-21-[[(2E)-2-methyl-1-oxo-2-butenyl]oxy]olean-12-en-3-yl 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

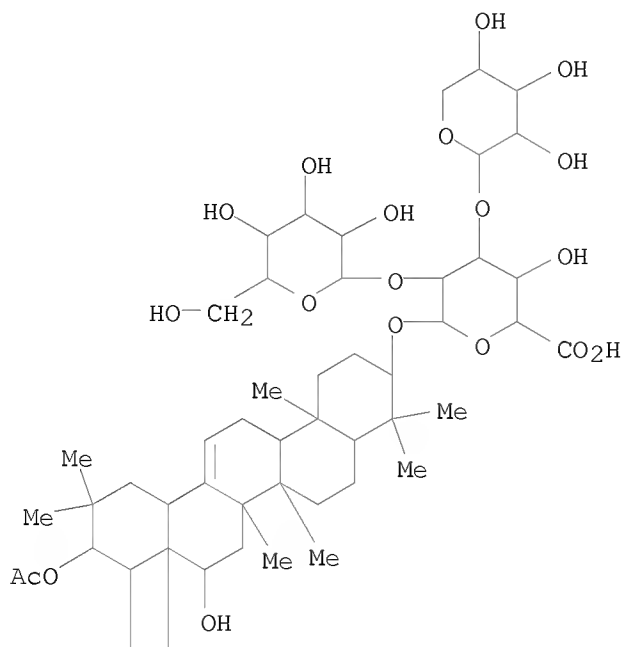


RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

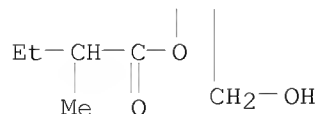
L4 ANSWER 9 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Saponins from *Hacquetia epipactis*
 AB Four new estersaponins were isolated from *Hacquetia epipactis*. Using GC-MS, FAB-MS and various 2D-NMR techniques they were identified as 3-O-{ β -D-glucopyranosyl-(1 \rightarrow 2)-[α -L-arabinopyranosyl-(1 \rightarrow 3)]- β -D-glucuronopyranosyl-(1 \rightarrow)}-21-acetyl-22-(2-methylbutyryl)-barringtonol C (hacquetiasaponin 1), the corresponding 21-(2-acetoxy-2-methylbutyryl)-22-acetyl-derivative (hacquetiasaponin 2), 3-O-{ β -D-glucopyranosyl-(1 \rightarrow 2)-[α -L-arabinopyranosyl-(1 \rightarrow 3)]- β -D-glucuronopyranosyl-(1 \rightarrow)}-21-acetyl-22-(2-methylbutyryl)-R1-barrigenol (hacquetiasaponin 3) and its corresponding 21-(2-acetoxy-2-methylbutyryl)-22-acetyl-derivative (hacquetiasaponin 4).
 AN 1995:593765 HCAPLUS <<LOGINID::20080924>>
 DN 123:79647
 OREF 123:14107a,14110a
 TI Saponins from *Hacquetia epipactis*
 AU Burczyk, Jan; Reznicek, Gottfried; Baumgarten, Sabine; Hugh-Bloch, Martina; Jurenitsch, Johann; Schroder, Harald; Werz, Udo; Haslinger, Ernst
 CS Katedra Zaklad Farmakognozji Fitochem., Slaska Akad. Medyczna, Sosnowiec, PL-41-200, Pol.

SO Phytochemistry (1995), 39(1), 195-8
 CODEN: PYTCAS; ISSN: 0031-9422
 PB Elsevier
 DT Journal
 LA English
 IT 165198-42-5P, Hacquetiasaponin 1 165198-43-6P,
 Hacquetiasaponin 2
 RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP
 (Properties); PUR (Purification or recovery); BIOL (Biological study);
 OCCU (Occurrence); PREP (Preparation)
 (saponins from Hacquetia epipactis)
 RN 165198-42-5 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
 21-(acetyloxy)-16,28-dihydroxy-22-(2-methyl-1-oxobutoxy)olean-12-en-3-yl
 O- α -L-arabinopyranosyl-(1 \rightarrow 3)-O-[β -D-glucopyranosyl-
 (1 \rightarrow 2)]- (9CI) (CA INDEX NAME)

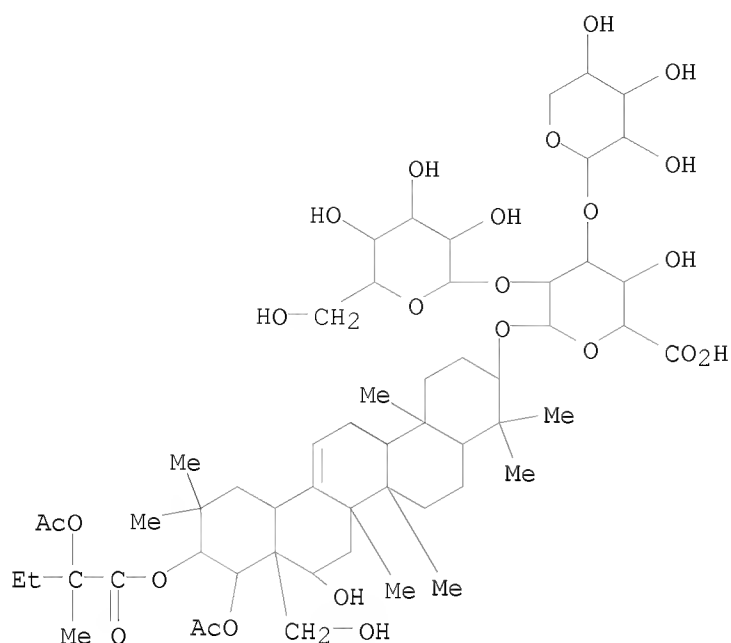
PAGE 1-A



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RN 165198-43-6 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
 22-(acetyloxy)-21-[2-(acetyloxy)-2-methyl-1-oxobutoxy]-16,28-
 dihydroxyolean-12-en-3-yl O- α -L-arabinopyranosyl-(1 \rightarrow 3)-O-
 [β -D-glucopyranosyl-(1 \rightarrow 2)]- (9CI) (CA INDEX NAME)



L4 ANSWER 10 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Triterpenoid saponin from *Gymnema inodorum* as a diabetes mellitus drug.

AB A novel triterpenoid saponin having neither unpleasant taste, such as astringency and bitterness, nor inhibitory effect on the sweet taste responses, but having an inhibitory effect on glucose absorption, and therefore useful as a preventive and therapeutic agent for diabetes mellitus (no data), is described. The triterpenoid saponin is (3 β ,16 β)-16,28-dihydroxyolean-12-en-3-yl-2-O- β -D-glucopyranosyl- β -D-glucopyranosiduronic acid. The saponin is obtained by subjecting leaves of *G. inodorum* to extraction with a solvent, evaporating the extract to dryness, washing the residue with an acid to remove base ingredients, defatting the washed residue, extracting the defatted residue with acetone, evaporating the extract to dryness, extracting the residue with di-Et

carbonate to provide crude crystals, dissolving the crude crystal in methanol, collecting a fraction eluted at 31.0 to 33.0 min by HPLC, and recrystg. the fraction from acetone-chloroform (50:50). A therapeutic diet comprising the triterpenoid saponin is also provided.

AN 1995:470268 HCAPLUS <<LOGINID::20080924>>

DN 122:222825

OREF 122:40559a,40562a

TI Triterpenoid saponin from *Gymnema inodorum* as a diabetes mellitus drug.

IN Atsuchi, Mikito; Yamashita, Chiaki; Iwasaki, Yoshio

PA Kowa Chemical Industries Co., Ltd., Japan

SO Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DT Patent

LA English

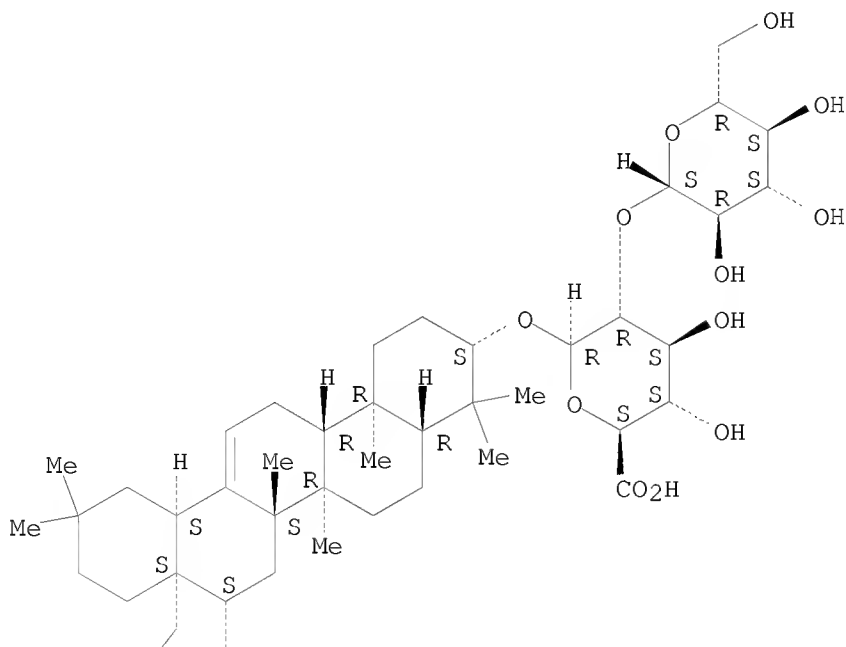
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 636633	A1	19950201	EP 1993-305973	19930728
	R: CH, DE, FR, GB, IT, LI, NL, SE				

PRAI EP 1993-305973 19930728
 IT 150975-93-2P
 RL: PUR (Purification or recovery); THU (Therapeutic use); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (triterpenoid saponin from *Gymnema inodorum* as a diabetes mellitus
 drug)
 RN 150975-93-2 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β ,16 β)-16,28-
 dihydroxyolean-12-en-3-yl 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry. Rotation (+).

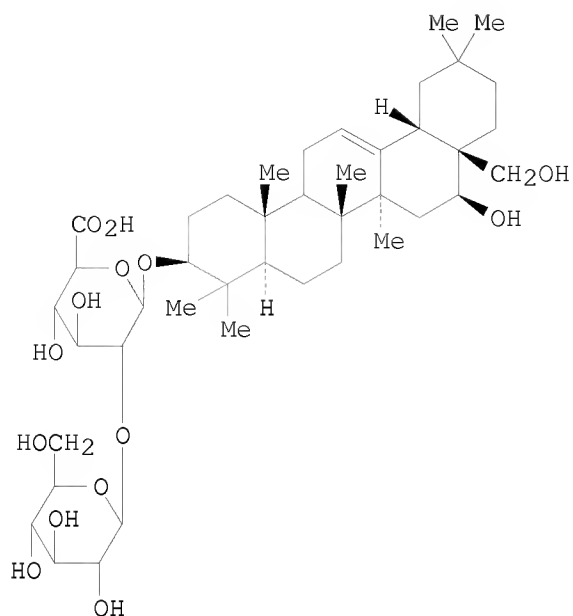
PAGE 1-A



PAGE 2-A



L4 ANSWER 11 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Antidiabetics containing triterpene glycoside from *Gymnema inodorum*
 GI



I

AB Prophylactic and therapeutic agents for diabetes contain triterpene glycoside (I) as an active ingredient. *Gymnema inodorum* leaf (100 g) was ground and extracted with MeOH under reflux for 2 h. The MeOH extract was evaporated, and the evaporated matter was washed with H₂O adjusted to pH 2 with HCl, dried, and then washed with petroleum ether. The residual matter was extracted with acetone and the extract was further reflux-extracted with Et₂CO₃ to

give 1.4 g crude I. The crude I dissolved in MeOH was fractionated with TSK gel ODS-80TM column and eluted with H₂O/MeCN/AcOH. The eluate was vacuum-dried and the residual matter was recrystd. with acetone and CHCl₃ to give 58 g I. I at 0.5 mg/kg was administered p.o. to mice 60 min before administration of sucrose (1 g/kg). Change in blood sugar was maximum 160% after 30 min, vs. ≥200% for a control. A tablet containing I 10, licorice extract 45, dextrin 55, crystalline cellulose 55, CMC Ca 33, and Ca stearate was prepared

AN 1994:622016 HCAPLUS <<LOGINID::20080924>>

DN 121:222016

OREF 121:40189a, 40192a

TI Antidiabetics containing triterpene glycoside from *Gymnema inodorum*

IN Atsuji, Mikito; Hikimoto, Katsumi; Yamashita, Chiaki; Iwasaki, Yoshio

PA Kowa Chem Ind Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

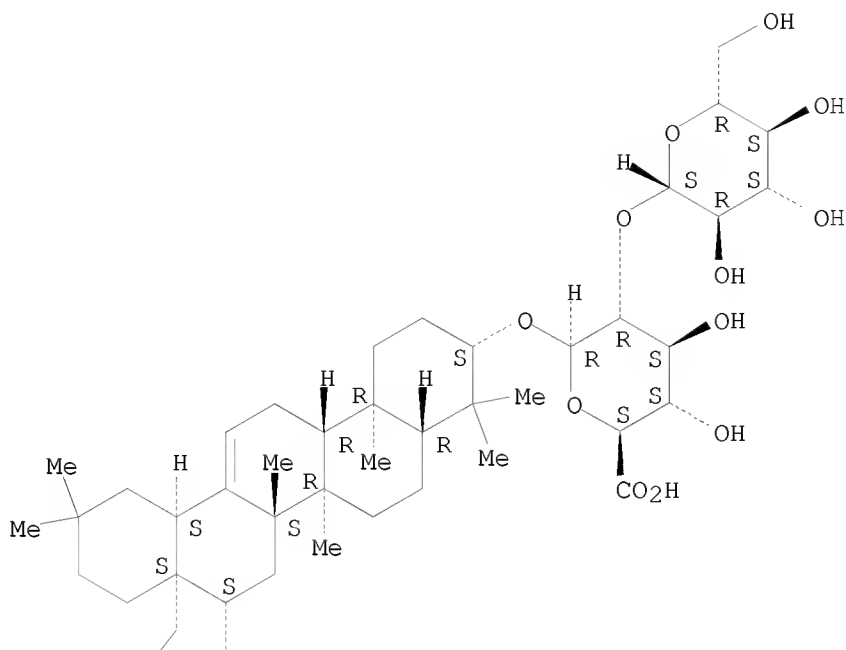
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06128161	A	19940510	JP 1992-40561	19920131
PRAI	JP 1992-40561		19920131		
IT	150975-93-2				
RL:	BIOL (Biological study)				
	(diabetes inhibitors containing, from <i>Gymnema inodorum</i>)				
RN	150975-93-2	HCAPLUS			
CN	β-D-Glucopyranosiduronic acid, (3β,16β)-16,28-dihydroxyolean-12-en-3-yl 2-O-β-D-glucopyranosyl- (9CI) (CA INDEX				

NAME)

Absolute stereochemistry. Rotation (+).

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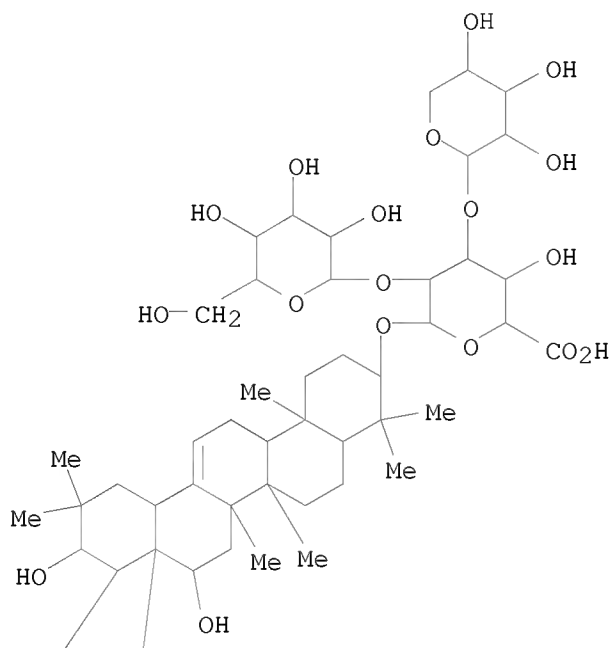
PAGE 2-A



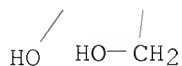
L4 ANSWER 12 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Saponins from *Barringtonia acutangula*
AB Three monodesmosidic glucuronide saponins of barringtogenol C, named barringtosides A, B and C have been isolated as their Me esters from the dried seeds of *B. acutangula*. On the basis of chemical and spectral evidence, the structures of these new saponins were elucidated to be as follows: barringtoside A, 3-O- β -D-xylopyranosyl(1 \rightarrow 3)-[β -D-galactopyranosyl(\rightarrow 2)]- β -D-glucuronopyranosyl barringtogenol C; barringtoside B, 3-O- β -D-xylopyranosyl(1 \rightarrow 3)-[β -D-galactopyranosyl(\rightarrow 2)]- β -D-glucuronopyranosyl-21-O-tigloyl-28-O-isobutyryl barringtogenol C; barringtoside C, 3-O- α -L-arabinopyranosyl(1 \rightarrow 3)-[β -D-galactopyranosyl(1 \rightarrow 2)]- β -D-glucuronopyranosyl barringtogenol C.
AN 1994:431097 HCAPLUS <<LOGINID::20080924>>
DN 121:31097
OREF 121:5669a,5672a
TI Saponins from *Barringtonia acutangula*
AU Pal, Bikas C.; Chaudhuri, Tirthankar; Yoshikawa, Kazuko; Arihara, Shigenobu
CS Indian Inst. Chem. Biol., Calcutta, 700 032, India

SO Phytochemistry (1994), 35(5), 1315-18
 CODEN: PYTCAS; ISSN: 0031-9422
 DT Journal
 LA English
 IT 155740-17-3, Barringtonside A 155740-18-4, Barringtonside
 B 155836-06-9, Barringtonside C
 RL: BIOL (Biological study)
 (from *Barringtonia acutangula*, isolation and structure of)
 RN 155740-17-3 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
 16,21,22,28-tetrahydroxyolean-12-en-3-yl O- β -D-galactopyranosyl-
 (1 \rightarrow 2)-O-[β -D-xylopyranosyl-(1 \rightarrow 3)]- (9CI) (CA INDEX
 NAME)

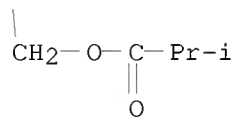
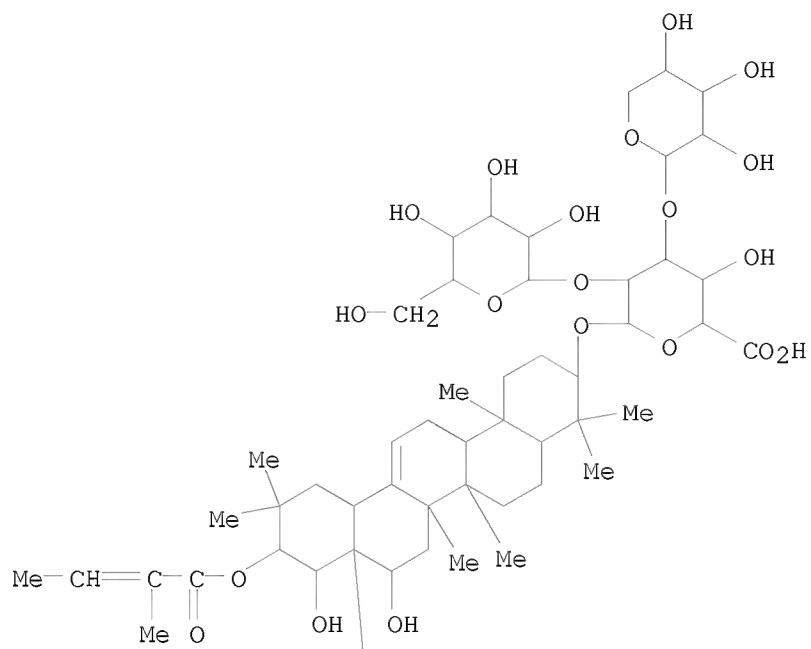
PAGE 1-A



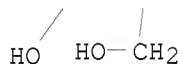
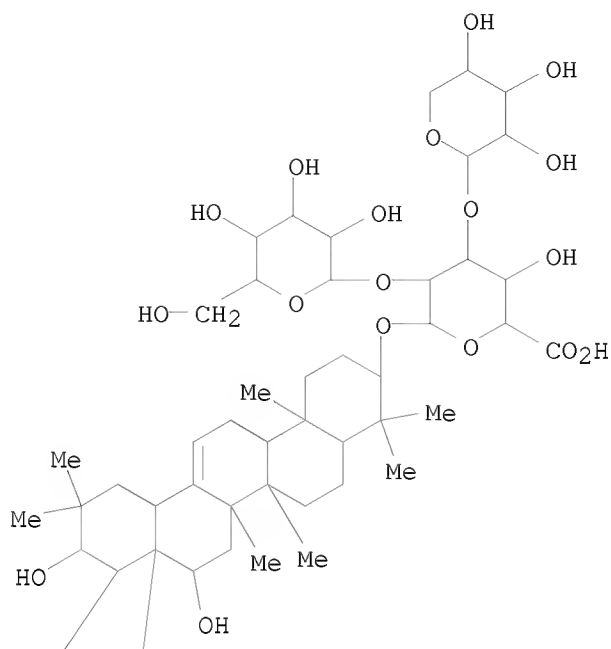
PAGE 2-A



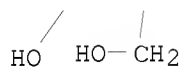
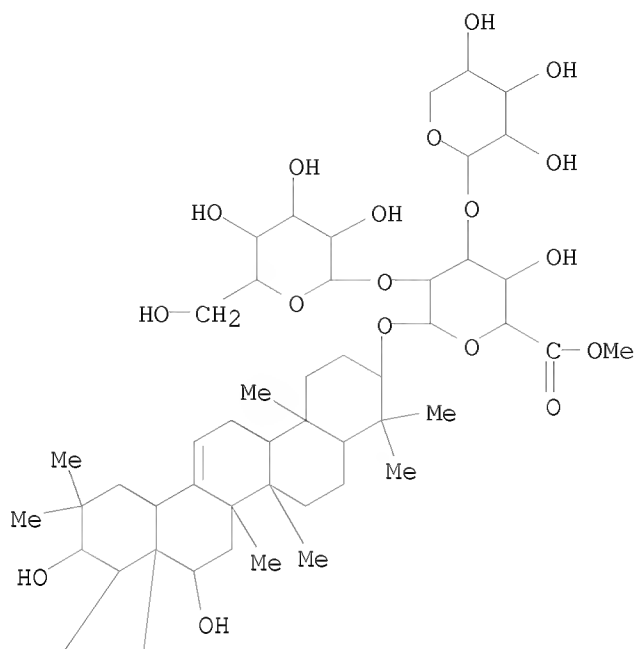
RN 155740-18-4 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
 16,22-dihydroxy-21-[[(2E)-2-methyl-1-oxo-2-butenyl]oxy]-28-(2-methyl-1-
 oxopropoxy)olean-12-en-3-yl O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-
 [β -D-xylopyranosyl-(1 \rightarrow 3)]- (9CI) (CA INDEX NAME)



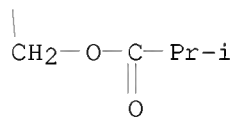
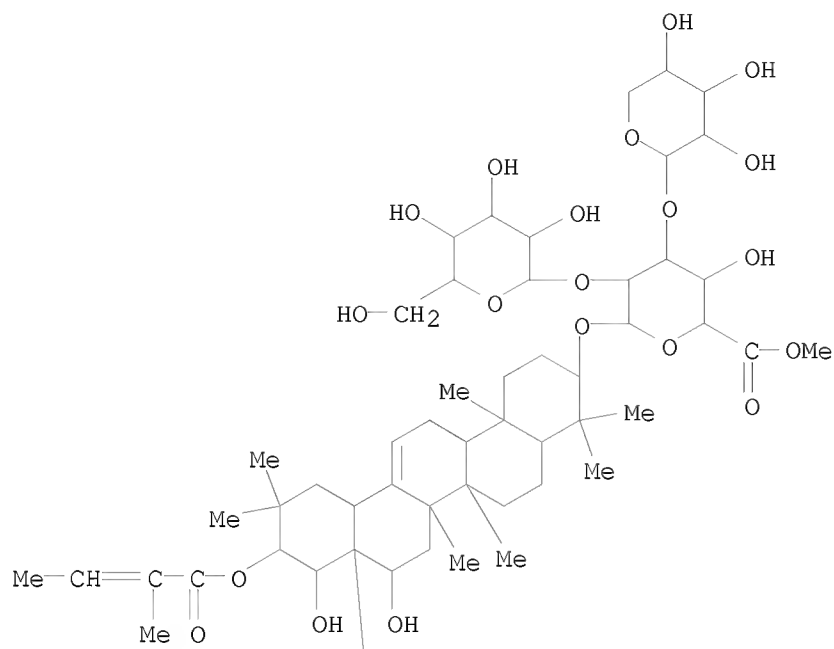
RN 155836-06-9 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
 16,21,22,28-tetrahydroxyolean-12-en-3-yl O- α -L-arabinopyranosyl-
 (1 \rightarrow 3)-O-[β -D-galactopyranosyl-(1 \rightarrow 2)]- (9CI) (CA INDEX
 NAME)



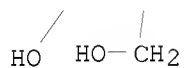
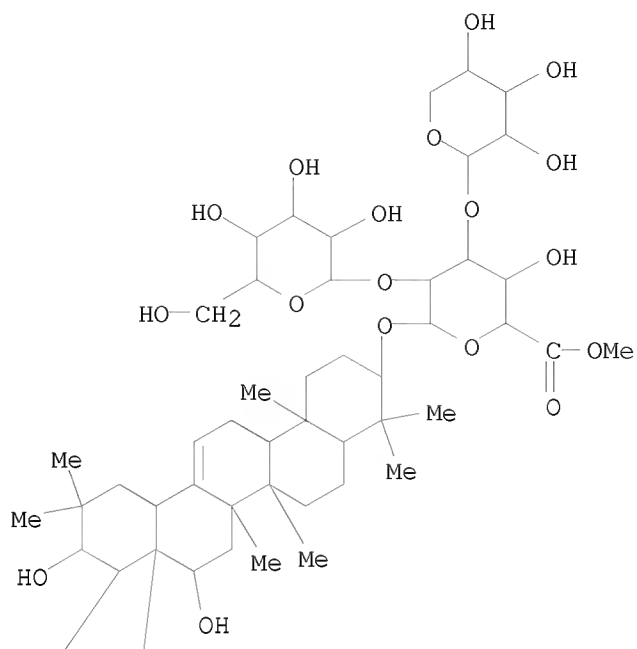
IT 155511-28-7P, Barringtonside A methyl ester 155511-29-8P,
 Barringtonside B methyl ester 155551-31-8P, Barringtonside C
 methyl ester
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation and properties of)
 RN 155511-28-7 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
 16,21,22,28-tetrahydroxyolean-12-en-3-yl O- β -D-galactopyranosyl-
 (1 \rightarrow 2)-O-[β -D-xylopyranosyl-(1 \rightarrow 3)]-, methyl ester (9CI)
 (CA INDEX NAME)



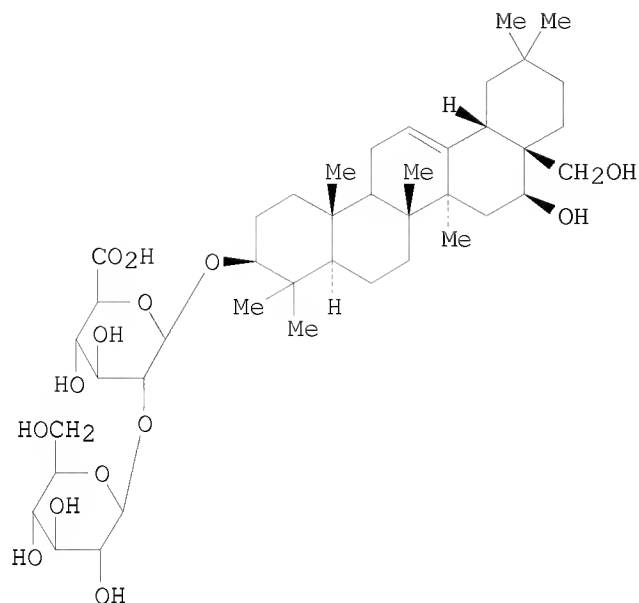
RN 155511-29-8 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, [3 β ,16 α ,21 β -(E),22 α]-16,22-dihydroxy-21-[(2-methyl-1-oxo-2-butenyl)oxy]-28-(2-methyl-1-oxopropoxy)olean-12-en-3-yl O- β -D-galactopyranosyl-(1 \rightarrow 2)-O-[β -D-xylopyranosyl-(1 \rightarrow 3)]-, methyl ester (9CI)
 (CA INDEX NAME)



RN 155551-31-8 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
 16,21,22,28-tetrahydroxyolean-12-en-3-yl O- α -L-arabinopyranosyl-
 (1 \rightarrow 3)-O-[β -D-galactopyranosyl-(1 \rightarrow 2)]-, methyl ester
 (9CI) (CA INDEX NAME)



L4 ANSWER 13 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Antidiabetic triterpene glycoside and its manufacture from *Gymnema*
GI inodorum



I

AB Triterpene glycoside I, which inhibits absorption of sugars and is bitterness-free, is manufactured by extraction of *G. inodorum* leaf with solvents, drying, washing with petroleum ether, extraction with Me₂CO, drying, extraction with di-Et carbonate, and precipitation of the crystals. I at 0.5 mg/kg p.o. inhibited increase of blood sugar level in sucrose-treated mice.

AN 1994:62261 HCAPLUS <<LOGINID::20080924>>

DN 120:62261

OREF 120:11129a,11132a

TI Antidiabetic triterpene glycoside and its manufacture from *Gymnema inodorum*

IN Atsuji, Mikito; Hikimoto, Katsumi; Yamashita, Chiaki; Iwasaki, Yoshio

PA Kowa Chem Ind Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05247086	A	19930924	JP 1992-40651	19920131
PRAI	JP 1992-40651		19920131		
IT	150975-93-2				

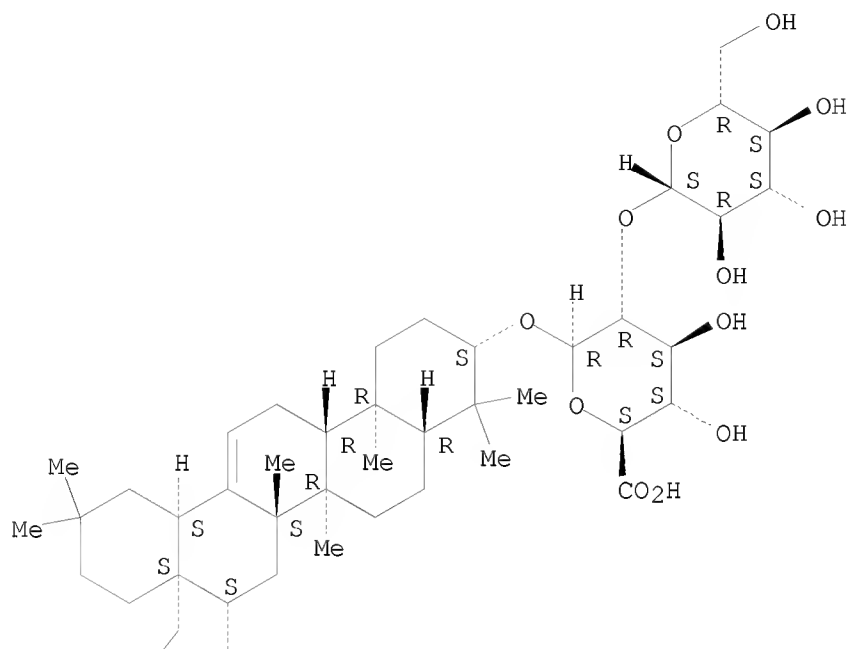
RL: BIOL (Biological study)

(extraction and antidiabetic activity of, from *Gymnema inodorum*)

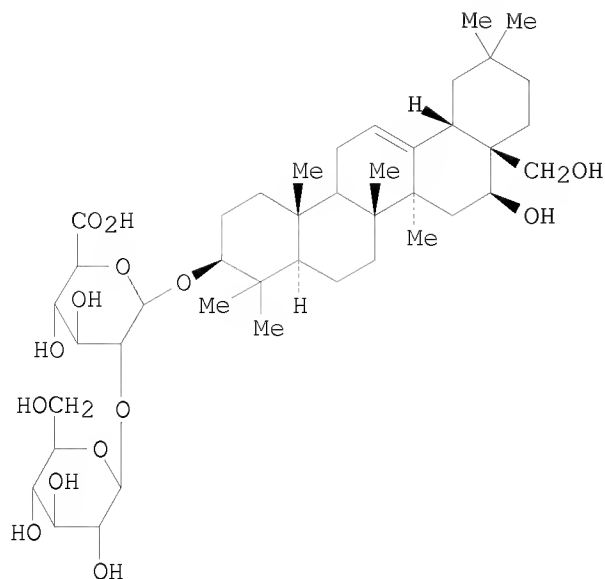
RN 150975-93-2 HCAPLUS

CN β -D-Glucopyranosiduronic acid, (3 β ,16 β)-16,28-dihydroxyolean-12-en-3-yl 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L4 ANSWER 14 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Triterpene glycosides as additives for foods and beverages
 GI



I

AB Triterpene glycoside I is useful as an additive for foods and beverages for suppression of sugar absorption, a desirable quality for diabetic patients. I (58 mg) was extracted and purified from 100 g dried leaves of *Gymnema inodorum*. Mice were administered i.p. with I (at 0.5 mg/kg) and p.o. with sucrose (at 1 g/kg) 60 min later to show increase in the blood glucose level to .apprx.150% 30 min after the administration of sucrose, vs. .apprx.250%, for controls without administration of I. I did not inhibit the sweetness of sucrose. Chocolate containing I was made.

AN 1993:648593 HCAPLUS <<LOGINID::20080924>>

DN 119:248593

OREF 119:44351a,44354a

TI Triterpene glycosides as additives for foods and beverages

IN Atsuji, Mikito; Hikimoto, Katsumi; Yamashita, Chiaki; Iwasaki, Yoshio

PA Kowa Chem Ind Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05211856	A	19930824	JP 1992-40653	19920131
PRAI	JP 1992-40653		19920131		
IT	150975-93-2				

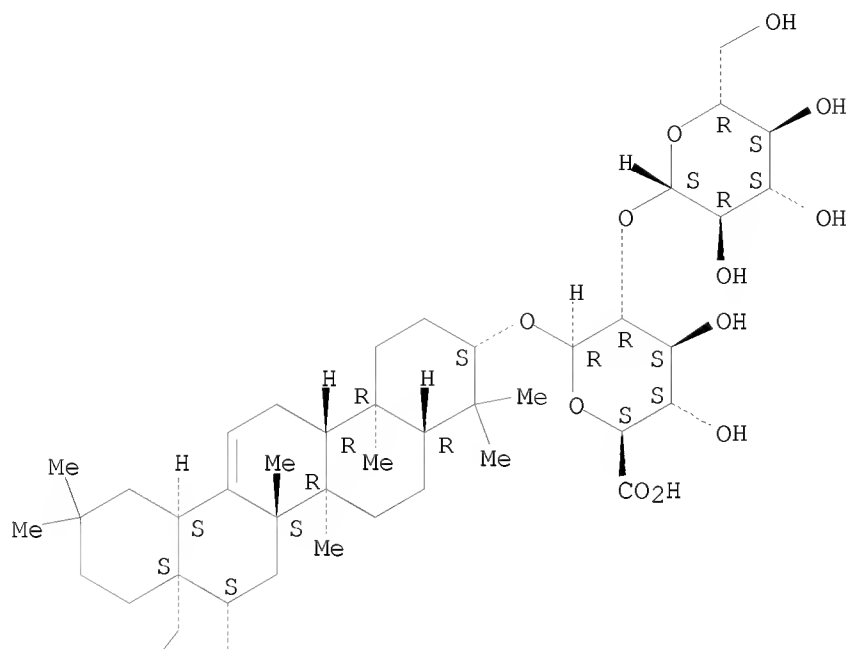
RL: BIOL (Biological study)

(from *Gymnema inodorum*, foods and beverages containing, sugar absorption-inhibiting)

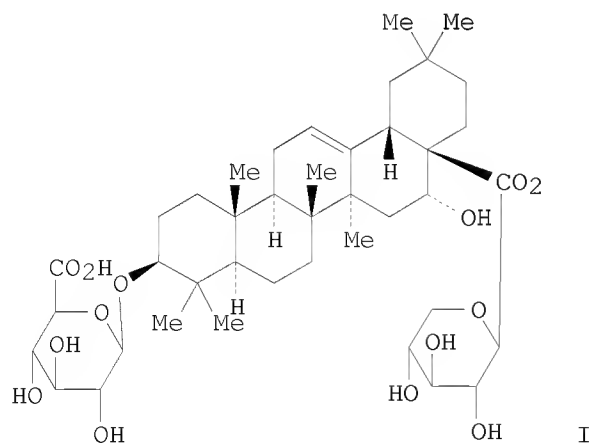
RN 150975-93-2 HCAPLUS

CN β -D-Glucopyranosiduronic acid, (3 β ,16 β)-16,28-dihydroxyolean-12-en-3-yl 2-O- β -D-glucopyranosyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L4 ANSWER 15 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Tragopogonosides A-I, oleanane saponins from *Tragopogon pratensis*
 GI



AB Nine new triterpenic saponins, tragopogonoside A (I), and tragopogonosides B-I, were isolated from the whole plants of *T. pratensis*, together with 5 known triterpenic glycosides. The structures of these saponins were determined on the basis of spectral and chemical evidence.

AN 1992:486776 HCAPLUS <<LOGINID::20080924>>

DN 117:86776

OREF 117:15067a,15070a

TI Tragopogonosides A-I, oleanane saponins from *Tragopogon pratensis*

AU Miyase, Toshio; Kohsaka, Hiromi; Ueno, Akira

CS Sch. Pharm. Sci., Univ. Shizuoka, Shizuoka, 422, Japan

SO Phytochemistry (1992), 31(6), 2087-91

CODEN: PYTCAS; ISSN: 0031-9422

DT Journal

LA English

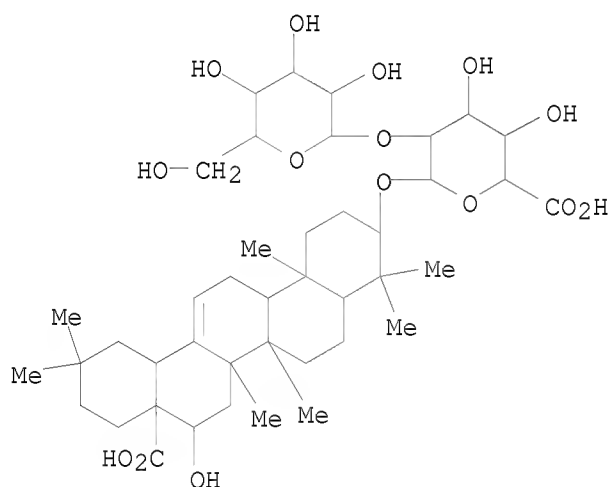
IT 142784-41-6, Tragopogonoside B

RL: BIOL (Biological study)

(of *Tragopogon pratensis*, structure of)

RN 142784-41-6 HCAPLUS

CN β -D-Glucopyranosiduronic acid, (3 β ,16 α)-17-carboxy-16-hydroxy-28-norolean-12-en-3-yl 2-O- β -D-galactopyranosyl- (9CI) (CA INDEX NAME)



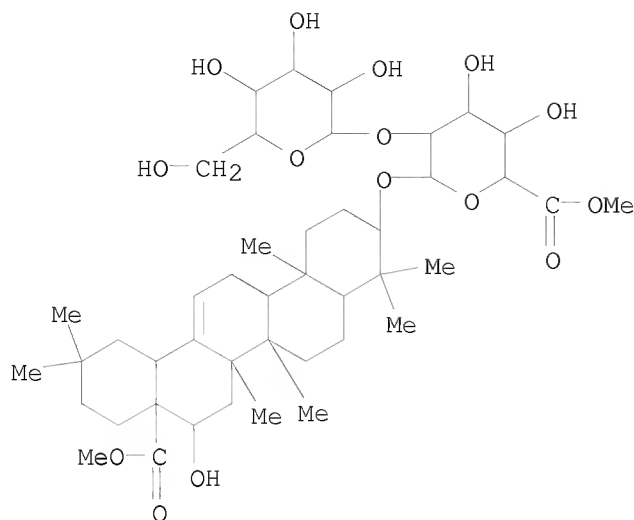
IT 142806-94-8P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 142806-94-8 HCAPLUS

CN β -D-Glucopyranosiduronic acid, (3 β ,16 α)-16-hydroxy-28-methoxy-28-oxoolean-12-en-3-yl 2-O- β -D-galactopyranosyl-, methyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 16 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Saponin and sapogenol. XVII. Structure of Sakuraso-saponin, a pentaglycoside of protoprimulagenin A from the root of *Primula sieboldi* E. Morren

GI For diagram(s), see printed CA Issue.

AB The title glycoside (I) on complete acid hydrolysis gave primulagenin A (II), glucose, galactose, rhamnose, and glucuronic acid, while the ultraviolet irradiation of I gave protoprimulagenin A (III). On the bases of the chemical and physicochem. investigations the full structure of I was established.

AN 1977:106978 HCAPLUS <<LOGINID::20080924>>

DN 86:106978

OREF 86:16893a

TI Saponin and sapogenol. XVII. Structure of Sakuraso-saponin, a pentaglycoside of protoprimulagenin A from the root of *Primula sieboldi* E. Morren

AU Kitagawa, Isao; Ikenishi, Yuji; Yoshikawa, Masayuki; Yosioka, Itiro

CS Fac. Pharm. Sci., Osaka Univ., Suita, Japan

SO Chemical & Pharmaceutical Bulletin (1976), 24(10), 2470-9
CODEN: CPBTAL; ISSN: 0009-2363

DT Journal

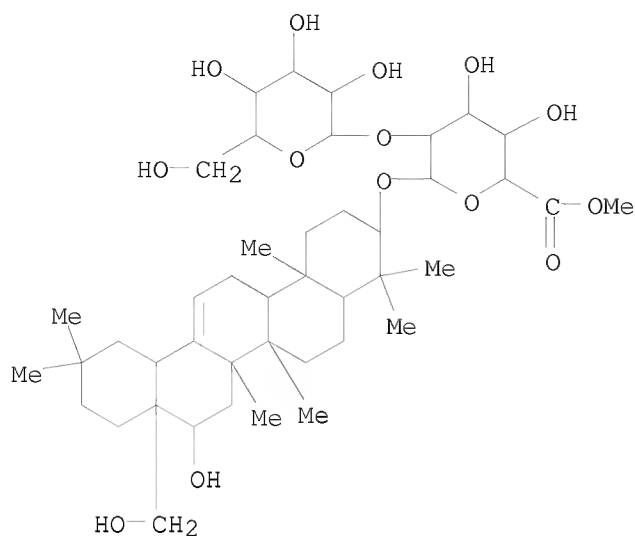
LA English

IT 61844-92-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and methylation of)

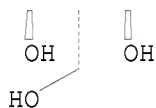
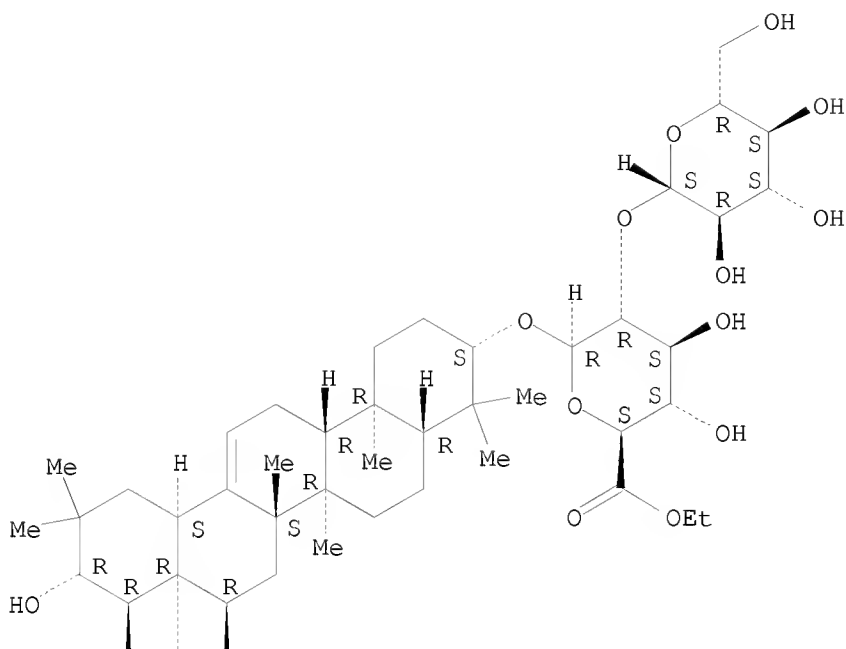
RN 61844-92-6 HCAPLUS

CN β -D-Glucopyranosiduronic acid, (3 β ,16 α)-16,28-dihydroxyolean-12-en-3-yl 2-O- β -D-glucopyranosyl-, methyl ester (9CI)
(CA INDEX NAME)



L4 ANSWER 17 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Saponin and sapogenol. X. Structures of jegosapogenin and
 desacyljegosaponin obtained from pericarps of *Styrax japonica*
 GI For diagram(s), see printed CA Issue.
 AB The structures of jegosapogenin obtained along with barringtogenol C and
 barringtogenol D by acid hydrolysis of the pericarps saponin of *S japonica*
 and of deacyljegosaponin, prepared by alkaline treatment of jegosaponin,
 were established as I and II on the basis of chemical and physiochem.
 evidence.
 AN 1975:564392 HCAPLUS <<LOGINID::20080924>>
 DN 83:164392
 OREF 83:25807a,25810a
 TI Saponin and sapogenol. X. Structures of jegosapogenin and
 desacyljegosaponin obtained from pericarps of *Styrax japonica*
 AU Kitagawa, Isao; Imakura, Yasuhiro; Hayashi, Teruaki; Yosioka, Itiro
 CS Fac. Pharm. Sci., Osaka Univ., Suita, Japan
 SO Chemical & Pharmaceutical Bulletin (1975), 23(7), 1520-31
 CODEN: CPBTAL; ISSN: 0009-2363
 DT Journal
 LA English
 IT 53829-34-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 53829-34-8 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β ,16 α ,21 β ,22 α)-
 16,21,22,28-tetrahydroxyolean-12-en-3-yl 2-O- β -D-glucopyranosyl-,
 ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

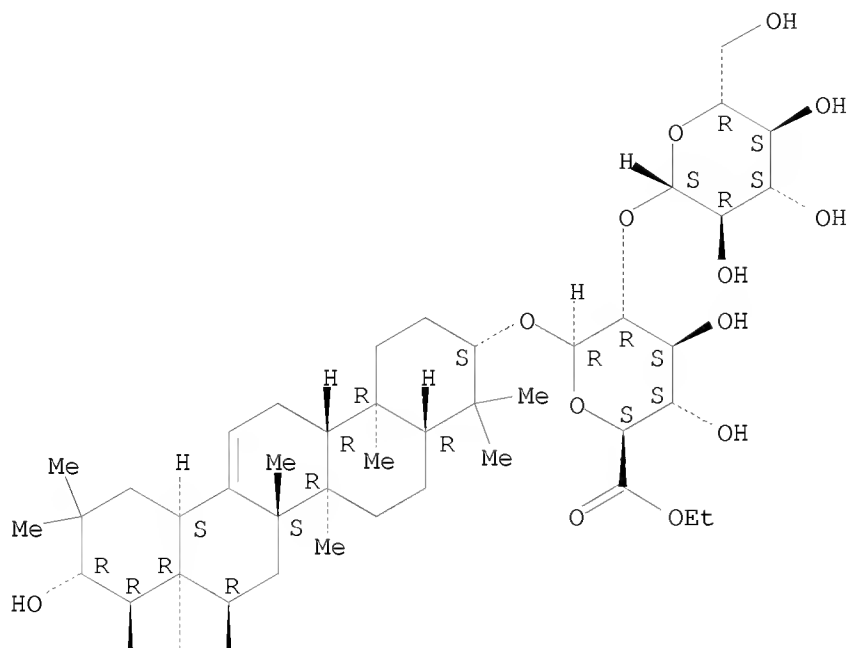


L4 ANSWER 18 OF 18 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Structure of desacyl-jegosaponin, a common desacyl derivative of jegosaponin isolated from pericarps of *Styrax japonica*
 GI For diagram(s), see printed CA Issue.
 AB The terpene glycoside, deacyljegosaponin, has the structure I, based on chemical and spectral data.
 AN 1974:536447 HCAPLUS <<LOGINID::20080924>>
 DN 81:136447
 OREF 81:21489a,21492a
 TI Structure of desacyl-jegosaponin, a common desacyl derivative of jegosaponin isolated from pericarps of *Styrax japonica*
 AU Kitagawa, Isao; Imakura, Yasuhiro; Hayashi, Teruaki; Yosioka, Itiro
 CS Fac. Pharm. Sci., Osaka Univ., Toyonaka, Japan
 SO Chemical & Pharmaceutical Bulletin (1974), 22(7), 1675-7
 CODEN: CPBTAL; ISSN: 0009-2363
 DT Journal
 LA English
 IT 53829-34-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 53829-34-8 HCAPLUS
 CN β -D-Glucopyranosiduronic acid, (3 β , 16 α , 21 β , 22 α)-

16,21,22,28-tetrahydroxyolean-12-en-3-yl 2-O- β -D-glucopyranosyl-,
ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

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